Fall 2016 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

MA0001 Sutter Maintenance Yard Maintenance Area 0001	Overall LMA Rating	Total LMA Miles							
Area 0001	A	Maintenance Deficiancy				Enforcement		Design & System	
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles		Obsole M Miles	U Miles	
Earthen Levee	IVI IVIIICS	O WIIIOS	W 1 40 Willes	Till Colloid 70	IVI IVIIICO	O WIIICO	W WIIICS	O WINCO	
Vegetation	0.27		0.27	1.61%	0.02	0.03			
Trim / Thin Trees	0.05		0.05	0.30%					
Encroachments					1.91	1.34			
Animal Control	0.01		0.01	0.06%					
Slope Stability	0.09		0.09	0.54%					
Erosion / Bank Caving	0.04		0.04	0.24%					
Supplemental									
2015 USACE Erosion Survey, DRAFT	0.63		0.63	3.76%					
DWR UCIP Field Study					0.35	0.09			
LMA Totals:	1.09	0.00	1.09	6.50%	2.28	1.46	0.00	0.00	
Unit No. 01 Sacramento River RB	Overall Unit Rating	Total Unit Miles							
MA0001	Α	16.76							
		Maintenance Deficiancy Enforcement		ement	Design 8 Obsole				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles		
Earthen Levee	1			<u> </u>					
Vegetation	0.27		0.27	1.61%	0.02	0.03			
Trim / Thin Trees	0.05		0.05	0.30%					
Encroachments					1.91	1.34			
Animal Control	0.01		0.01	0.06%					
Slope Stability	0.09		0.09	0.54%					
Erosion / Bank Caving	0.04		0.04	0.24%					
LIUSIUIT/ Darik Caving									
Supplemental									
Supplemental 2015 USACE Erosion Survey, DRAFT	0.63		0.63	3.76%					
Supplemental	0.63		0.63	3.76%	0.35	0.09			
Supplemental 2015 USACE Erosion Survey, DRAFT	0.63	0.00	0.63	3.76%	0.35 2.28	0.09	0.00	0.00	

Winter **

Flood Control Project Maintenance Levee Inspections

LMA District Cover Sheet

Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0001

Spring

Summer **

Fall

	(March - May)	(June - August)	(September - November)	(December - February)							
† Overall LMA Rating (Fall Only)			A								
** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.											
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.											
	FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indiction of risk.										
Comments											

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento River	Right	16.76

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			Α	
Date of Inspection	3/24/2016 - 3/24/2016		11/1/2016 - 11/1/2016	
DWR Inspector	Keith Millard		Tariq Chechi	
Accompanied By	Bryan Reniff Sutter Maintenance Yard		Bryan Reniff Sutter Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start		Rating **	Α	Issue No.		19	
LM End		Issue Type +	Ма	Location * LS			
Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item	Emergency Supplies &				0		0
пеш	it			0		0	
DWR ID	DWR_MA0	001_01_s _ 201					
		Comn	nent Cod	de			
			_				
		Inspecto	or Comm	nent			
The LMA h	nas emerge	ency supplies	and equ	ipment.			

No Photos

LM Start		Rating **	Α	Issue No.		28	
LM End		Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	tituc	le/Longitude	
Calegory				Start		End	
Item		s & Maintena	nce		0		0
пеш	Manuals				0		0
DWR ID	DWR_MA0	001_01_s _ 201	13_28				
		Comn	nent Coc	le			
		Inspecto	or Comm	ent			
The LMA h	nas O&M n	nanuals.					

No Photos

LM Start		Rating **	Α	Issue No.		29			
LM End		Issue Type +	Ма	Location *		LS			
Category	Earthen L	evee		GPS La	atituc	de/Longitude			
Calegory				Start		End			
Item	Flood Pre	paredness &	Training		0	o			
item					0	o			
DWR ID	DWR_MA0	001_01_s _ 201	13_29						
		Comn	nent Cod	le					
		Inspecto	or Comm	ent					
The LMA of	completed	flood fight trai	ning in 2	.016.					

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	0.01	Rating **	N	Issue No.		92	
LM End	0.01	Issue Type +	Ma	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Trim / Thi	n Trees		39.2140	00°	39.214000 °	
пеш				-122.0010	77°	-122.001077°	
DWR ID	DWR_MA0001_01_f _ 2016_92						
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
Inspector Comment							

No Photos

LM Start	0.04	U	Issue No.		2	_		
LM End	0.23	Issue Type +	En	Location *		LS	_	
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End		
Encroachments			39.2139	88°	39.215198	٥		
Item				-122.001537 °		-122.004775	٥	
DWR ID	DWR_MA0	001_01_s _ 201	12_2					
		Comn	nent Cod	de				
BU : Build	ing							
			_					
Inspector Comment								



View of the building along the landside toe.

LM Start	0.07	Rating **	М	Issue No.		93	
LM End	0.07	Issue Type +	En	Location *		WS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroachi	ments		39.2141	62°	39.214162°	
item				-122.0021	58°	-122.002158°	
DWR ID	DWR_MA0	001_01_f _ 201	6_93				
		Comn	nent Cod	de			
TR : Tree	or limb						
			•				
		Inspecto	or Comm	nent			



View of a tree limb along the waterside slope.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	0.09	Rating **	М	Issue No.		94
	0.09	Issue Type +	Ma	Location *		LS
LM End	0.09	issue Type +	IVIA	Location		LO
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Odlogory				Start		End
Item	Slope Sta	bility		39.2142	17°	39.214217°
item		-122.002378 ° -122.00				
DWR ID	DWR_MA0	001_01_f _ 201	6_94			
		Comn	nent Cod	de		
S2 : Repai where pos		slope damag	jed by fo	ot traffic an	d pre	event access
		Inspecto	or Comm	nent		
Repair the erosion along the damaged slope.						
,						



View of the slope instability along the landside slope.

LM Start	0.10	Rating **	М	Issue No.		95	
LM End	0.10	Issue Type +	Ма	Location *		LS	
Category	Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End	
Item	Vegetatio	n		39.2142	75°	39.214275°	
пеш				-122.0025	58°	-122.002558 °	
DWR ID	ID DWR_MA0001_01_f _ 2016_95						

Comment Code

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Remove the arundo to maintain visibility along the landside toe.

Photo 1 of 1: FA_2016_MA0001_297_95_20161104_00153.jpg



View of the arundo along the landside toe.

LM Start	0.23	Rating **	М	Issue No.		96		
LM End	0.23	Issue Type +	Ма	Location *		WS		
Category	Earthen Levee GPS Latitude/Longitude							
Calegory				Start		End		
Item	Erosion /	Bank Caving		39.2151	80°	39.215180°		
item		-122.004712° -122.						
DWR ID	DWR_MA0	001_01_f _ 201	6_96					
		Comn	nent Cod	de				
E2 : Sched	dule repair	of erosion site	e prior to	the next in	spec	ction.		
		Inspecto	or Comm	nent				

Photo 1 of 1 : FA_2016_MA0001_297_96_20161104_00154.jpg



View of the erosion along the waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	0.25	Rating **	N	Issue No.		97		
LM End	0.25	Issue Type +	Ma	Location *		LS		
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Trim / Thi	n Trees		39.2153	43°	39.215343°		
item				-122.0051	00°	-122.005100°		
DWR ID	DWR_MA0	001_01_f _ 201	6_97					
		Comn	nent Cod	de				
T5 : Tree s	stumps.							
		Inspecto	or Comm	nent				

No Photos

LM Start	0.32	Rating **	С	Issue No.		73
LM End	0.32	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Encroachi	ments		39.2158	34°	39.215834
пеш				-122.006222 °		-122.006222
DWR ID	DWR_MA0	001_01_s _ 201	16_73			
		Comn	nent Cod	de		
DE : Debri	S					
	Inspector Comment					
soil pile wit	soil pile with weeds and concrete wash out.					

No Photos

LM Start	0.38	Rating **	М	Issue No.		98	
LM End	0.38	Issue Type +	Ma	Location *	WS		
Catagory	Earthen L	evee		GPS La	atitud	e/Longitude	
Category	Category					End	
Item	Slope Sta	ppe Stability			78°	39.215878°	
item				-122.0072	?78°	-122.007278 °	
DWR ID	DWR_MA0	001_01_f _ 201	6_98				
		Comn	nent Cod	de			
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.							
	Inspector Comment						



View of the slope instability along the waterside slope.

*Location

LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown

** Rating

A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable U : Unacceptable U : Unacceptable A/W : Acceptable but Monitor & Maintain

** Rating

A : Acceptable N : Not Inspected/Rated Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	0.42	Rating **	М	Issue No.		99
LM End	0.42	Issue Type +	En	Location *		LS
Catagony	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Encroachi	ments		39.2158	863°	39.215863°
item				-122.008015 °		-122.008015 °
DWR ID	DWR_MA0	001_01_f _ 201	6_99			
		Comn	nent Cod	de		
EQ : Equip	ment					
		Inspecto	or Comm	nent		
Move the equipment and container at least 10' away from the landside toe.						



View of the equipment and shipping container along the landside toe.

LM Start	0.49	Rating **	М	Issue No.		100		
LM End	0.49	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	n Trees		39.2158	° 00	39.215800°			
item				-122.009402 ° -122.0094				
DWR ID DWR_MA0001_01_f _ 2016_100								
		Comn	nent Cod	de				
T1: Trim t	rees to at I	east five feet	above g	round level				
		Inspecto	or Comm	nent				



View of an overgrown bush obstructing visibility.

LM Start	0.53	Rating **	N	Issue No.		101	
LM End	0.53	Issue Type +	Ma	Location *	LS		
Category	Earthen L	evee		GPS Latitude/Longitude			
Category				Start		End	
Item	Trim / Thin Trees					39.215808°	
itom				-122.0099	95°	-122.009995 °	
DWR ID	DWR_MA0	001_01_f _ 201	6_101				
		Comn	nent Cod	de			
T5 : Tree s	stumps.						
		Inspecto	or Comm	nent			

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	0.67	Rating **	М	Issue No.		102	
LM End	0.69	Issue Type +	Ма	Location *		WS	
Catagony	evee	GPS La	atitud	e/Longitude			
Category				Start		End	
Item	Trim / Thi		39.2165	13°	39.216642 °		
item				-122.012440 ° -122.012			
DWR ID DWR_MA0001_01_f _ 2016_102							
		Comn	nent Cod	de			
T1 : Trim t	rees to at I	east five feet	above g	round level.	•		
		Inspecto	or Comm	nent			



View of a tree obstructing visibility and access.

LM Start	0.67	Rating **	U	Issue No.		7	
LM End	0.70	Issue Type +	En	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start End			
Item	Encroachments			39.2165	33°	39.216680°	
пеш						-122.012907°	
DWR ID	DWR_MA0	001_01_s _ 201	12_7				
Comment Code							
BU : Building							

Inspector Comment

Photo 1 of 1: FA_2016_MA0001_297_7_20160823_00005.jpg



View of the buildings along the landside toe.

LM Start	0.68	Rating **	N	Issue No.		103		
LM End	0.68	Issue Type +	Ма	Location *	WS			
Category Earthen Levee				GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Trim / Thin Trees					39.216560°		
пеш				-122.012530°				
DWR ID DWR_MA0001_01_f _ 2016_103								
		Comn	nent Cod	de				
T5 : Tree s	stumps.							
		Inspecto	or Comm	nent				



View of a tree stump along the waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	0.79	Rating **	U	Issue No.		8		
LM End	0.93	Issue Type +	En	Location *	LS			
Category Earthen Levee			GPS La	atitud	le/Longitude			
Category				Start		End		
Item	ments		39.2172	82°	39.218215°			
пеш				-122.014290 ° -122.01653				
DWR ID DWR_MA0001_01_s _ 2012_8								
		Comn	nent Cod	de				
BU : Buildi	ng							
			•					
		Inspecto	or Comm	nent				



View of a building along the landside toe.

LM Start	1.11	Rating **	М	Issue No.		104	
LM End	1.11	Issue Type +	Ма	Location *	LS		
Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Slope Sta	bility		39.2207	'28 °	39.220728°	
пеш				-122.015885 ° -122.01588			
DWR ID DWR_MA0001_01_f _ 2016_104							
		Comn	nent Co	de			
S1 : Repa	ir slope ins	tability.					
		Inspecto	or Comn	nent			



View of a slope instability issue along the landside slope.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	1.17	Rating **	М	Issue No.		640		
LM End	1.17	Issue Type +	En	Location *	LS			
Category				GPS Latitude/Longitude				
Category				Start		End		
Item	DWR UCI	P Field Study		39.221685°		39.221685°		
пеш				-122.0157	20°	-122.015720°		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:50463 DS_ID:16431 EP_NO: 9481

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 LS still rusted/corroded. WS appears in good condition.(DWR Sutter Yard- AFreitag)4/25/2016 LS pipe outlet is rusted and corroded. Wood debris on WS has been removed and erosion on toe road was repaired.4/20/2015 Same as last inspection. No repairs have been made yet. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 LS outlet was underwater and could not be inspected but nothing looks to have been changed.10/18/2012 Need pressure test/video inspection to determine integrity of pipe wall. WS-woody debris scattered along slope & bank. Erosion on bank near ditch. LS-discharge pipe heavily corroded & CMP section missing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0097 for debris & encroachment within 15 feet.

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee at unknown depth below the crown. Slide gate is located on the waterside (WS) slope. Crossing penetrates the levee at an angle. Other appurtances located at this crossing include slant pump, concrete distribution box and shed structure located 100 feet northeast from levee crossing. Flow is carried from concrete distribution box to slide gate via concrete lined ditch. Outlet is visible on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9481, 1974 - Roberts Ditch Irrigation Company) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 63+53)].

FS Date: 10/27/2016 8:40:49 AM

Photo 1 of 2: UCIP_FA_2016_50463_70052.jpg



Overview of levee crown at crossing looking U/S.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	1.17	Rating **	М	Issue No.		640 (cont)	
LM End	1.17	Issue Type +	En	Location *		LS	
Category				GPS Latitude/Longitude			
Calegory	Category					End	
Item	DWR UC	P Field Study		39.221685°		39.221685°	
пеш				-122.0157	20°	-122.015720°	
DWR ID						·	
Comment Code							

Inspector Comment

FS_ID:50463 DS_ID:16431 EP_NO: 9481

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 LS still rusted/corroded. WS appears in good condition.(DWR Sutter Yard- AFreitag)4/25/2016 LS pipe outlet is rusted and corroded. Wood debris on WS has been removed and erosion on toe road was repaired.4/20/2015 Same as last inspection. No repairs have been made yet. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 LS outlet was underwater and could not be inspected but nothing looks to have been changed.10/18/2012 Need pressure test/video inspection to determine integrity of pipe wall. WS-woody debris scattered along slope & bank. Erosion on bank near ditch. LS-discharge pipe heavily corroded & CMP section missing. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0097 for debris & encroachment within 15 feet.

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee at unknown depth below the crown. Slide gate is located on the waterside (WS) slope. Crossing penetrates the levee at an angle. Other appurtances located at this crossing include slant pump, concrete distribution box and shed structure located 100 feet northeast from levee crossing. Flow is carried from concrete distribution box to slide gate via concrete lined ditch. Outlet is visible on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9481, 1974 - Roberts Ditch Irrigation Company) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 63+53)].

FS Date: 10/27/2016 8:40:49 AM

Photo 2 of 2: UCIP_FA_2016_50463_70051.jpg



Other appurtances associated with crossing-Structure, pump, distribution box, and power pole located on WS bank.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	1.20	Rating **	U	Issue No.		6	
LM End	1.34	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		39.2221	19°	39.224063°	
item	item				47°	° -122.016080	
DWR ID DWR_MA0001_01_s _ 2012_6							
		Comn	nent Cod	de			
DT : Ditch							
		Inspecto	or Comm	nent			

Photo 1 of 1 : FA_2016_MA0001_297_6_20160823_00004.jpg	
09/15/2012	

View of an ag ditch along the landside toe.

LM Start	1.92	Rating **	М	Issue No.		648			
LM End	1.92	Issue Type +	En	Location *		LS			
Category	Supplemental				GPS Latitude/Longitude				
Category				Start		End			
Item	DWR UCI	P Field Study		39.2318	66°	39.231866°			
item				-122.0154	42 °	-122.015442°			
DWR ID									

Comment Code Inspector Comment

FS_ID:50465 DS_ID:16430 EP_NO: 9487

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Ws end is till partially plugged.(DWR Sutter Yard- AFreitag)4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition.4/20/2015 WS pipe end is plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment.10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.

FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. Pipe daylights on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].

FS Date: 10/27/2016 8:51:12 AM

Photo 1 of 2: UCIP_FA_2016_50465_70064.jpg



Overview of levee crown and slopes looking upstream towards crosing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	1.92	Rating **	М	Issue No.		648 (cont)		
LM End	1.92	Issue Type +	En	Location *	LS			
Category	GPS Latitude/Longitude							
Category	Category					End		
Item	DWR UCI	P Field Study		39.23186	6°	39.231866°		
пеш				-122.01544	2 °	-122.015442°		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:50465 DS_ID:16430 EP_NO: 9487

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Ws end is till partially plugged.(DWR Sutter Yard- AFreitag)4/25/2016 WS pipe end is still plugged with soil. Rest of the pipe appeared to be in good condition.4/20/2015 WS pipe end is plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still clogged about 50% by sediment.10/18/2012 Remove dirt and debris in riser. Outlet deformed and blocked over 50%. Debris-round concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.

FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser located on the waterside (WS) slope. Pipe daylights on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].

FS Date: 10/27/2016 8:51:12 AM

Photo 2 of 2: UCIP_FA_2016_50465_70063.jpg



View of WS looking upstream at CMP riser on slope.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	1.92	Rating **	М	Issue No.		641	
LM End	1.92	Issue Type +	En	Location *		LS	
Category Supplemental				GPS Latitude/Longitude			
				Start		End	
Item	DWR UCI	P Field Study		39.231880°		39.231880°	
пеш				-122.015432 °		° -122.015432 °	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:50466 DS_ID:17565 EP_NO: 9487

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Ws pipe end still plugged.(DWR Sutter Yard- AFreitag)4/25/2016 WS pipe end still plugged with soil. rest of pipe appears in good condition.4/20/2015 WS pipe end plugged about 50% by soil.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS pipe end has been reformed but is still partially blocked with dirt and debris.10/18/2012 WS-remove dirt and debris in riser. Outlet deformed and blocked over 50%. Burrow activity near outlet on waterward slope. Debris around concrete section on landward side. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0116 for crossing outlet deformed and clogged with dirt.

FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gates in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe daylights on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9487, 1974 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 103+18)].

FS Date: 10/27/2016 9:05:57 AM

LM Start	1.92	Rating **	М	Issue No.	641 (cont)
LM End	1.92	Issue Type +	En	Location *	LS



View of levee crown and slopes looking upstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50466_70074.jpg



View of CMP risers located on WS slope.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	2.16	Rating **	М	Issue No.		105		
LM End	2.16	Issue Type +	Ma	Location *	WS			
Category Earthen Levee			GPS La	atitud	le/Longitude			
Calegory				Start		End		
Item	Erosion / Bank Caving					39.235107°		
пеш				-122.0135	67°	-122.013567 °		
DWR ID DWR_MA0001_01_f _ 2016_105								
		Comn	nent Cod	de				
E2 : Schedule repair of erosion site prior to the next inspection.								
		Inspecto	or Comm	nent				

LM Start	2.16	Rating **	М	Issue No.	105 (cont)
LM End	2.16	Issue Type +	Ma	Location *	WS



View of an erosion site along the waterside berm.

Photo 2 of 2: FA_2016_MA0001_297_105_20161104_00163.jpg



Another close up view of the erosion site.

Photo 1 of 1: FA_2016_MA0001_297_106_20161104_00164.jpg

LM Start	2.23	Rating **	М	Issue No.		106	
LM End	2.23	Issue Type +	En	Location *	LS		
Cotogon Earthen Levee			GPS Latitude/Longitude				
Calegory	Category					End	
Item	Encroachments			39.2358	80°	39.235880°	
пеш			-122.0130	45°	-122.013045°		
DWR ID DWR_MA0001_01_f _ 2016_106							
Comment Code							
FW : Firew	vood						
		Inspecto	or Comm	nent			
Remove the chicken wire and firewood from the landside toe.							



11/01/2016

View of the firewood along the landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	2.23	Rating **	М	Issue No.	642		
LM End	2.23	Issue Type +	En	Location *	LS		
Category	ental	GPS Latitude/Longitude					
Calegory			Start		End		
Item	DWR UCI	P Field Study		39.23599	93 °	39.235993 °	
пеш				-122.01297	'0°	-122.012970 °	
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:50467 DS_ID:16429 EP_NO: 9472

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Debris still inside of riser.(DWR Sutter Yard- AFreitag)4/25/2016 Pipe still inside of riser and LS end plugged about 50% by soil.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last

inspection.7/18/2013 Same as last inspection.10/18/12 Remove debris from riser. Landward inlet is blocked by over 50%. This crossing

was listed in the USACE Periodic Inspections as ID#
USACE_CESPK_MA1C_2010_p_0128 for sediment build up at inlet

(landward side) and debris inside riser.

FIELD_STRUCT_DESC: 54-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 48-inch CMP at landside (LS) slope. This crossing crosses the levee at an angle. (Automatic Board Order (ABO) issued as Permit No. 9472, 1974 - Ballard)) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+00)]. FS Date: 10/27/2016 9:08:49 AM

LM Start	2.23	Rating **	М	Issue No.	642 (cont)
LM End	2.23	Issue Type +	En	Location *	LS



View of levee crown looking downstream at crossing. CMP riser located on WS shoulder.

Photo 2 of 2: UCIP_FA_2016_50467_70079.jpg



View of WS looking at slope and channel.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	2.25	Rating **	М	Issue No.		643	
LM End	2.25	Issue Type +	En	Location *	LS		
Category	ental	GPS Latitude/Longitude					
Calegory	Category					End	
Item	DWR UCI	P Field Study		39.23617	78°	39.236178	٥
пеш					2°	-122.012812	0
DWR ID							

Inspector Comment

Comment Code

FS_ID:50468 DS_ID:16428 EP_NO: 9467

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Abandoned.(DWR Sutter Yard-AFreitag)4/25/2016 Abandoned crossing. Unable to locate any WS and LS pipe ends.4/20/2015 Same as last inspection.6/18/2014

Same as last inspection.12/17/2013 Same as last inspection 7/18/2013 Same as last inspection 10/18

inspection.7/18/2013 Same as last inspection.10/18/2012 Only riser visible. Debris and sediment blocking gate. Gate inside riser is buried and non-functional. If crossing is abandoned, owner needs to properly abandon. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0132 no culvert through the levee is visible here.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in CM pipe riser on the waterside (WS) slope. No signs of inlet visible on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9467, 1974 - Lovell E. Spurgeon) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 120+60)].

FS Date: 10/27/2016 9:10:21 AM

LM Start	2.25	Rating **	М	Issue No.	643 (cont)
LM End	2.25	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50468_70085.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50468_70084.jpg



View of WS slope and toe.

*Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

AW: Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

		D 11 44					
LM Start	2.25	Rating **	М	Issue No.		80	
LM End	2.25	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Encroachi	ments		39.2362	11 °	39.236211°	
пеш				-122.0127	775° -122.012775		
DWR ID	DWR_MA0	001_01_s _ 201	16_80				
		Comn	nent Cod	de			
DE : Debri	S						
		Inspecto	or Comm	nent			
Remove the metal roofing and other debris.							



View of the equipment and debris obstructing access.

LM Start	2.36	Rating **	М	Issue No.	107	
LM End	2.36	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Encroachi	ments	39.237628°		39.237628°	
iteiii				-122.0119	67°	-122.011967°
DWR ID	DWR_MA0	001_01_f _ 201	6_107			
		Comn	nent Cod	le		
EQ : Equip	ment					
	Inspector Comment					



View of the ag equipment along the landside toe.

LM Start	2.36	Rating **	М	Issue No.		108
LM End	2.36	Issue Type +	Ma	Location *		LS
Category	Earthen Levee				atitud	e/Longitude
Category				Start		End
Item	Slope Sta	bility		39.2376	28°	39.237628°
item				-122.0119	67°	-122.011967°
DWR ID	DWR_MA0	001_01_f _ 201	6_108			
		Comn	nent Coo	le		
S1 : Repai	r slope ins	tability.				
		Inspecto	or Comm	ent		



View of the slope instability along the landside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	2.53	Rating **	U	Issue No.		20
LM End	2.55	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	le/Longitude
Calegory				Start		End
Item	Encroachi	ments		39.2397	'50 °	39.239955 °
item				-122.0103	90°	-122.010090 °
DWR ID DWR_MA0001_01_s _ 2012_20						
		Comn	nent Cod	de		
BU : Build	ing					
			•			
		Inspecto	or Comm	nent		

Photo 1 of 1 : FA_2016_MA0001_297_20_20160823_00010.jpg



View of the house next to the levee.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	2.81	Rating **	М	Issue No.	655		
LM End	2.81	Issue Type +	En	Location *	LS		
Category	Suppleme	ental		GPS Latitude/Longitude			
Calegory				Start End			
Item	DWR UCI	P Field Study		39.24341	0 °	39.243410	0
пеш				-122.008393 °		-122.008393	0
DWR ID							
	Comment Code						

Inspector Comment

FS ID:50470 DS_ID:16416 EP_NO: 9474

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be abandoned. WS vault full of soil to help prevent water from flowing through during high water season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box was filled with dirt to help prevent water from through during high water times.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled

FIELD STRUCT DESC: 1 of 2: 60-inch reinforced concrete irrigation pipe through the levee, approximately 12-15 feet below the crown. This crossing penetrates the levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gates missing. (Automatic Board Order (ABO) issued as Permit No. 9774, 1974 - George R. Zumwalt) O&M manual description is for two 5-foot by 5-foot concrete culverts with two hand-operated slide gates. Culvert constructed with wing walls and gates. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 150+06)]. FS Date: 10/27/2016 9:10:00 AM

Photo 1 of 2: UCIP FA 2016 50470 70092.ipg



Overview of levee crown looking downstream at crossing.

CR : Crown

LS: Land Side N/A: Not Applicable WS: Water Side

Acceptable Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated C : Corrected

+ Issue Type

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	2.81	Rating **	М	Issue No.		655 (cont)	
LM End	2.81	Issue Type +	En	Location *		LS	
Category	Suppleme	ental		GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	P Field Study		39.24341	10°	39.243410	٥
пеш				-122.00839	93 °	-122.008393	0
DWR ID							

Inspector Comment

Comment Code

FS_ID:50470 DS_ID:16416 EP_NO: 9474

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be abandoned. WS vault full of soil to help prevent water from flowing through during high water season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box was filled with dirt to help prevent water from through during high water times.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/12 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled

FIELD STRUCT DESC: 1 of 2: 60-inch reinforced concrete irrigation pipe through the levee, approximately 12-15 feet below the crown. This crossing penetrates the levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gates missing. (Automatic Board Order (ABO) issued as Permit No. 9774, 1974 - George R. Zumwalt) O&M manual description is for two 5-foot by 5-foot concrete culverts with two hand-operated slide gates. Culvert constructed with wing walls and gates. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 150+06)]. FS Date: 10/27/2016 9:10:00 AM

Photo 2 of 2: UCIP_FA_2016_50470_70094.jpg



View of concrete distribution box and headwall located on WS.

CR : Crown

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma: Maintenance Deficiancy Ob : Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	2.81	Rating **	М	Issue No.		644	
LM End	2.81	Issue Type +	En	Location *		LS	
Category	Suppleme	ental	al GPS Latit				
Calegory				Start End			
Item	DWR UCI	P Field Study		39.24343	33 °	39.243433°	
пеш				-122.00838	36°	-122.008386°	
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:50471 DS_ID:17567 EP_NO: 9474

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be abandoned. WS vault full of soil to help prevent water from flowing through during high water season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box on WS was filled with soil to help prevent water form flowing through during times of high water.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2015 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled with dirt.

FIELD_STRUCT_DESC: 2 of 2: 60-inch reinforced concrete irrigation pipe through the levee, approximately 12-15 feet below the crown. Crossing goes through the levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gate missing. (Automatic Board Order (ABO) issued as Permit No. 9474, 1974 - George R. Zumwalt) O&M manual description is for two 5-foot by 5-foot concrete culverts with two hand operated slide gates. Culvert constructed with wing walls and gate well. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 150+06)]. FS Date: 10/27/2016 9:12:30 AM

Photo 1 of 2: UCIP_FA_2016_50471_70105.jpg



Overview of levee crown looking downstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	2.81	Rating **	М	Issue No.	644 (cont)		
LM End	2.81	Issue Type +	En	Location *	LS		
Category				GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR UCI	P Field Study		39.24343	3°	39.243433°	
пеш				-122.00838	6°	-122.008386 °	
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:50471 DS_ID:17567 EP_NO: 9474

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be abandoned. WS vault full of soil to help prevent water from flowing through during high water season.(DWR Sutter Yard- AFreitag)4/25/2016 Concrete box on WS was filled with soil to help prevent water form flowing through during times of high water.4/20/2015 Positive closure device is missing and water cannot be prevented from flowing through pipe during high water.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/18/2015 During high water flow goes through levee. Missing positive closure device on waterward side. This structure appears abandoned-slide gates have been removed. Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0169 for concrete box partially filled with dirt.

FIELD_STRUCT_DESC: 2 of 2: 60-inch reinforced concrete irrigation pipe through the levee, approximately 12-15 feet below the crown. Crossing goes through the levee at an angle. Slide gates in concrete well at the waterside (WS) toe. Slide gate missing. (Automatic Board Order (ABO) issued as Permit No. 9474, 1974 - George R. Zumwalt) O&M manual description is for two 5-foot by 5-foot concrete culverts with two hand operated slide gates. Culvert constructed with wing walls and gate well. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 150+06)].

FS Date: 10/27/2016 9:12:30 AM

Photo 2 of 2: UCIP_FA_2016_50471_70107.jpg



Concrete distribution box and headwall located on WS.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	2.81	Rating **	U	Issue No.		109				
LM End	2.92	Issue Type +	En	Location *		LS				
Earthen Levee				GPS La	atitud	le/Longitude				
Category				Start		End				
Item	Encroachi	ments		39.2434	67°	39.244902°				
пеш	-122.008340 ° -122.007867									
DWR ID DWR_MA0001_01_f _ 2016_109										
		Comn	nent Cod	de						
DT : Ditch										
		Inspecto	or Comm	nent						



View of a concrete lined ditch along the landside toe.

LM Start	3.05	Rating **	U	Issue No.		5		
LM End	3.46	Issue Type +	En	Location *		LS		
Cotogony	Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Encroach	ments		39.2468	13°	39.252748°		
item				-122.0081	55 °	-122.008320 °		
DWR ID	DWR ID DWR_MA0001_01_s _ 2012_5							
		Comn	nent Cod	de				
DT : Ditch								
		Inspecto	or Comm	nent				



View of the ag. ditch & concrete building along the landside toe.

LM Start	3.08	Rating **	U	Issue No.		110					
LM End	3.08	Issue Type +	En	Location *	LS						
Category Earthen Levee			GPS Latitude/Longitude								
Category				Start		End					
Item	Vegetatio	n		39.2472	273°	39.247273°					
item				-122.0081	85°	-122.008185 °					
DWR ID	DWR ID DWR_MA0001_01_f _ 2016_110										
		Comn	nent Cod	de							
V6 : Lands	caping										
		Inspecto	or Comm	nent							



View of the overgrown trees blocking visibility.

*Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Minimally Acceptable U: Unacceptable U: Unacceptable WA: Acceptable but Monitor & Maintain

** Rating

A: Acceptable N: Not Inspected/Rated Ma: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	3.09	Rating **	С	Issue No.		81			
LM End	3.09	Issue Type +	Ma	Location *		LS			
Category Earthen Levee				GPS La	atitud	e/Longitude			
Calegory						End			
Item	Trim / Thi	n Trees		39.2473	32°	39.247332 °			
item				-122.0081	64°	-122.008164 °			
DWR ID	DWR_MA0	001_01_s _ 201	16_81						
		Comn	nent Coo	de					
T3 : Trim a flood fight.		es to allow vis	sibility of	the ground	anc	froom to			
		Inspecto	or Comm	nent					
downed tree covering LS slope.									

No Photos

LM Start	3.33	Rating **	М	Issue No.		645
LM End	3.33	Issue Type +	En	Location *		LS
Category	Suppleme	ental		GPS La	atitud	le/Longitude
Category			Start		End	
Item	DWR UCI	P Field Study		39.2508	43°	39.250843°
пеш				-122.0079	92°	-122.007992°
DWR ID						

Comment Code

Inspector Comment

FS_ID:50473 DS_ID:16426 EP_NO: 9490

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 WS slide gate stem is still bent. (DWR Sutter Yard- AFreitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not

stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)].

FS Date: 10/27/2016 9:13:51 AM

Photo 1 of 2 : UCIP_FA_2016_50473_70110.jpg



View of LS looking upstream.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	3.33	Rating **	М	Issue No.		645 (cont)		
LM End	3.33	Issue Type +	En	Location *	LS			
Category				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCI	P Field Study		39.25084	3°	39.250843°		
пеш			-122.00799	2 °	-122.007992 °			
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:50473 DS_ID:16426 EP_NO: 9490

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 WS slide gate stem is still bent.(DWR Sutter Yard- AFreitag)4/25/2016 WS slide gate is slightly bent. Rest of crossing appears to be in good condition. 4/20/2015 LS inlet still has some minor sediment build up. Needs to be cleaned.6/18/2014 Same as last inspection.12/17/2013 Same as last

inspection.7/18/2013 WS slide gate looks to be in good condition but stem is slightly bent. Not sure if bend will hinder gates operation or not. LS inlet is still blocked by minor sediment build up.10/18/2012 LS pipe slightly deformed and sediment build up blocking about 30% of opening; need to check the condition of the slide gate-need photo. Metal marker down. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0187 for sediment build up at landward toe.

FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, approximately 12-15 feet below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. (Permit No. 9490, 1955 - Charles & Virginia Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 177+67)].

FS Date: 10/27/2016 9:13:51 AM

Photo 2 of 2: UCIP_FA_2016_50473_70109.jpg

View of WS looking upstream.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	3.68	Rating **	U	Issue No.		646
LM End	3.68	Issue Type +	Issue Type + En			LS
Category	Supplemental			GPS Latitude/Longitude		
Calegory				Start		End
Item	DWR UCI	P Field Study		39.2558)3°	39.255803°
пеш				-122.0096	33°	-122.009683 °
DWR ID						

Inspector Comment

Comment Code

FS_ID:50474 DS_ID:16436 EP_NO: 4213 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Pump is on WS. Sinkhole still present over pipe alignment next to the concrete building.(DWR Sutter Yard-AFreitag)4/25/2016 No repairs have been made since last inspection. Sink holes are still present above pipe next to concrete building on LS. (DWR Sutter Yard - afreitag)4/20/2015 Sink hole over pipe alignment on LS up against the concrete building. Need to dig up pipe and see if its leaking. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)6/18/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Recommend adding door to LS concrete structure. Riser located on landward side is damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0194 no issues logged. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe through the levee, approximately 10 feet below the crown. Gate valve on the waterside (WS) shoulder. 1-1/4 inch conduit through the levee. Siphon breaker on the landside (LS) shoulder. Concrete distribution box and control box located on the LS. Pump, walkway, and gate located on the WS berm. (Permit No. 4213, 1973 - Scott Ranch) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 9:14:48 AM

Photo 1 of 2: UCIP_FA_2016_50474_70222.jpg



Overview of levee crown looking upstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	3.68	Rating **	U	Issue No.		646 (cont)			
LM End	3.68	Issue Type +	En	Location *		Location *		LS	
Category	Suppleme	pplemental			GPS Latitude/Longitude				
Calegory				Start		End			
Item	DWR UCI	P Field Study		39.25580	3°	39.255803	0		
пеш				-122.00968	3°	-122.009683	0		
DWR ID									

Inspector Comment

Comment Code

FS_ID:50474 DS_ID:16436 EP_NO: 4213 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Pump is on WS. Sinkhole still present over pipe alignment next to the concrete building. (DWR Sutter Yard-AFreitag)4/25/2016 No repairs have been made since last inspection. Sink holes are still present above pipe next to concrete building on LS. (DWR Sutter Yard - afreitag)4/20/2015 Sink hole over pipe alignment on LS up against the concrete building. Need to dig up pipe and see if its leaking. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)6/18/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Recommend adding door to LS concrete structure. Riser located on landward side is damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0194 no issues logged. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 24-inch asphalt coated steel irrigation pipe through the levee, approximately 10 feet below the crown. Gate valve on the waterside (WS) shoulder. 1-1/4 inch conduit through the levee. Siphon breaker on the landside (LS) shoulder. Concrete distribution box and control box located on the LS. Pump, walkway, and gate located on the WS berm. (Permit No. 4213, 1973 - Scott Ranch) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 9:14:48 AM

Photo 2 of 2 : UCIP_FA_2016_50474_70221.jpg

Gate valve and exposed section of the pipe located on WS.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	3.71	Rating **	М	Issue No.		647	
LM End	3.71	Issue Type +	En	Location *	LS		
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start	Start End		
Item	DWR UCI	P Field Study		39.25618	89°	39.256189°	
пеш				-122.00995	57 °	-122.009957°	
DWR ID							

Comment Code

Inspector Comment

FS_ID:50475 DS_ID:16424 EP_NO: 9490

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Abandoned. Needs a cover made for the LS distribution box.(DWR Sutter Yard- AFreitag)4/25/2016
ABANDONED crossing and should be abandoned properly. Concrete distribution box on LS is opened on top and could pose a safety hazard with falling.4/20/2015 Same as last inspection. 6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013
Same as last inspection.10/19/2012 Crossing needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0194-6 & 7 no issues logged. FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal irrigation pipe through the levee, approximately 12-15 feet below the crown. Concrete distribution box with pump system located on the landside (LS). Slide gate on the waterside (WS) slope--removed. 18-inch pipe visible on the LS inside 10-foot by 16 foot concrete box. (Automatic Board Order (ABO) issued as Permit No. 9490, 1974 -

(Station 197+19)]

FS Date: 10/27/2016 9:15:43 AM

LM Start	3.71	Rating **	М	Issue No.	647 (cont)
LM End	3.71	Issue Type +	En	Location *	LS

Charles T & Virginia W. Yerxa) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955



Concrete distribution box located on LS.

Photo 2 of 2: UCIP_FA_2016_50475_70123.jpg



Abandoned pump system inside concrete structure located on LS.

*Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable A: Acceptable but Monitor & Maintain Enforcement

* Issue Type

Ma: Maintenance Deficiancy

Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	3.74	Rating **	М	Issue No.		111	
LM End	3.74	Issue Type +	En	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroach	ments		39.2565	33°	39.256533°	
пеш				-122.010262 °		-122.010262°	
DWR ID DWR_MA0001_01_f _ 2016_111							
		Comn	nent Cod	de			
PR : Pruni	ngs						
		Inspecto	or Comm	nent			
Remove prunings from the landside toe.							



View of the prunings along the landside toe.

LM Start	3.77	Rating **	М	Issue No.		Issue No.		660	
LM End	3.77	Issue Type +	En	Location *		LS			
Category	Supplemental				GPS Latitude/Longitude				
Calegory			Start		End				
Item	DWR UCI	IP Field Study		39.2562	03 °	39.256203°			
пеш				-122.0099	40°	-122.009940°			
DWR ID									

Inspector Comment

Comment Code

FS_ID:50476 DS_ID:16423 EP_NO: 9489

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Crossing appears abandoned.(DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears abandoned and should be abandoned properly.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Slide gate wheel handle missing. Clear debris from CMP riser. This crossing was listed in the USACE Periodic Inspection as ID#

USACE_CESPK_MA1C_2010_p_0196 for access box contains backfilled (permanently shut) and outlet located on landside has sediment build up.

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee at an unknown depth below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 6-foot by 6-foot concrete box on the WS berm. Additional 12-inch pipe inside concrete distribution box. (Automatic Board Order (ABO) issued as Permit No. 9489, 1974 - Mayfair Farms Inc.) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955. (Station 198+00)].

FS Date: 10/27/2016 9:24:08 AM

Photo 1 of 2: UCIP_FA_2016_50476_70128.jpg



View of crossing looking upstream. Concrete box located on the WS.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	3.77	Rating **	М	Issue No.		660 (cont)	
LM End	3.77	Issue Type +	En	Location *		LS	
Catagony	Category			GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR UCI	P Field Study		39.25620	3°	39.256203	۰
пеш		=		-122.00994	0°	-122.009940	٥
DWR ID							

Inspector Comment

Comment Code

FS_ID:50476 DS_ID:16423 EP_NO: 9489

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Crossing appears abandoned (DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears abandoned and should be abandoned properly.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Slide

gate wheel handle missing. Clear debris from CMP riser. This crossing

was listed in the USACE Periodic Inspection as ID#
USACE_CESPK_MA1C_2010_p_0196 for access box contains
backfilled (permanently shut) and outlet located on landside has

sediment build up.

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee at an unknown depth below the crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. 6-foot by 6-foot concrete box on the WS berm. Additional 12-inch pipe inside concrete distribution box. (Automatic Board Order (ABO) issued as Permit No. 9489, 1974 - Mayfair Farms Inc.) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 198+00)].

FS Date: 10/27/2016 9:24:08 AM



View of concrete distribution box and CMP riser located on WS.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	3.79	Rating **	M	Issue No.		649	
LM End	3.79	Issue Type +	En	Location *		LS	
Category			GPS Latitude/Longitude				
Calegory			Start		End		
DWR UCIP Field Study			39.2566	06 °	39.256606	0	
Item				-122.0111	15 °	-122.011115	0
DWR ID							
Comment Code							

No Photos

Inspector Comment

FS_ID:50477 DS_ID:17659 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 10/24/2016 Unable to locate.(DWR Sutter Yard-AFreitag)4/25/2016 Unable to locate 4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 USA flag markers show some type of alignment on LS. Unable to determine if crossing still exists at this location.

FIELD_STRUCT_DESC: 18-inch steel drainage pipe through the levee at an unknown depth below the crown. Automatic drainage gate on the outlet end of the pipe. [Additional Reference(s): USACE Sacramento O&M Manual 137, August 1955, (Station 150+20)].

FS Date: 10/27/2016 9:26:54 AM

LM Start	3.88	Rating **	М	Issue No.		50	
LM End	3.88	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Category			Start		End		
ltem Vegetation			39.25712	25°	39.257125°		
				-122.01264	l8°	-122.012648 °	
DWR ID DWR_MA0001_01_f _ 2013_50							
Comment Code							
VA . Eldenhamine and blooking visibility and flood fight concluity.							

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

* Location LS: Land Side WS: Water Side

N/A: Not Applicable

A : Acceptable
M : Minimally A Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated

C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type Ma : Maintenance Deficiancy Ob : Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	3.95	Rating **	М	Issue No.		650	
LM End	3.95	Issue Type +	En	Location *		LS	
Supplemental			GPS Latitude/Longitude				
Calegory				Start		End	
Item	DWR UCI	P Field Study		39.2580	73°	39.258073°	
пеш				-122.0131	65 °	-122.013165°	
DWR ID							

Comment Code

Inspector Comment

FS_ID:50478 DS_ID:16422 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be abandoned (DWR Sutter Yard- AFreitag)4/25/2016 Appears to be an abandoned crossing.

4/20/2015 Debrs is still blocking gate. Appears to be an abandoned crossing.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Wheel to operate slide gate has been replaced but gate is still blocked by debris.10/19/2012 WS-wheel to operate slide gate missing, walkway has been removed; burrow activity near structure; debris in concrete distribution box WS blocking gate. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0207 the wheel to operate sluice gate missing.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch drainage pipe of an unknown material through the levee, unknown depth below the crown. Walkway to slide gate on the waterside (WS) end. Walkway has been removed. Flap gate in concrete distribution box at the landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 9:27:43 AM

LM Start	3.95	Rating **	М	Issue No.	650 (cont)
LM End	3.95	Issue Type +	En	Location *	LS

Photo 1 of 2: UCIP_FA_2016_50478_70137.jpg



View of levee crown looking upstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50478_70139.jpg



View of WS slope with concrete structure.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	4.65	Rating **	М	Issue No.		651		
LM End	4.65	Issue Type +	En	Location *		LS		
Category				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCIP Field Study			39.26643	85 °	39.266435	٥	
item				-122.01094	3°	-122.010943	0	
DWR ID								

Inspector Comment

Comment Code

FS_ID:50479 DS_ID:16421 EP_NO: 9475

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be abandoned.(DWR Sutter Yard- AFreitag)4/25/2016 Abandoned crossing. Only WS standpipe is visible.4/20/2015 Same as last inspection.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Burrow activity; limited visibility of this crossing only on WS riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0207 the wheel to operate sluice gate missing. Issue addressed wheel to slide gate has been installed.

FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal irrigation pipe through the levee, 16.1 feet below the crown. Slide gate inside corrugated metal pipe (CMP) riser located on the waterside (WS) end. Line buried on the WS and landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9475, 1974 - Mattie B. Zumwalt Co.) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 247+86)]. FS Date: 10/27/2016 9:30:05 AM

 LM Start
 4.65
 Rating **
 M
 Issue No.
 651 (cont)

 LM End
 4.65
 Issue Type +
 En
 Location *
 LS

Photo 1 of 2: UCIP_FA_2016_50479_70144.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50479_70147.jpg



Riser with slide gate located on WS toe.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	4.85	Rating **	М	Issue No.		112
LM End	4.85	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Encroachments			39.265738°		39.265738°
item			-122.013880 °		-122.013880°	
DWR ID DWR_MA0001_01_f _ 2016_112						
Comment Code						
PR : Prunings						
Inspector Comment						
Remove prunings from the landside toe.						

11701/2018

Photo 1 of 1: FA_2016_MA0001_297_112_20161104_00170.jpg

View of the prunings along the landside toe.

LM Start	4.86	Rating **	М	Issue No.		3
LM End	5.26	Issue Type +	Ma	Location *		WS
Category Supplemental			GPS Latitude/Longitude			
			Start		End	
ltem 2015 USACE Erosion Survey, DRAFT			39.265730°		39.266315°	
			-122.014925 °		-122.020682 °	
DWR ID DWR_MA0001_01_s _ 2016_3						
Comment Code						

Inspector Comment

2009 - Slump in the middle of the section has left a vertical section on the bank. 2010 - Old cobble site unraveling, site extended downstream. 2015: Last observed in 2013. [2015 Site ID: SAC_151-0_R]



USACE 2013 Photo #1

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	4.97 Rating ** M		Issue No.		652			
LM End	4.97	Issue Type +	Issue Type + En L		WS			
Supplemental				GPS Latitude/Longitude				
Calegory	Category					End		
Item	DWR UCI	DWR UCIP Field Study			24°	39.264924°		
пеш			-122.01588	37°	-122.015887°			
DWR ID						·		

Inspector Comment

Comment Code

FS_ID:50480 DS_ID:16420 EP_NO: 4903

Repair Type: Non-Urgent Crossing Status: Indicator Found

UCIP Comments: 10/24/2016 appears to be abandoned.(DWR Sutter

Yard- AFreitag)4/25/2016 Appears to be an abandoned

crossing.4/20/2015 Suspect that pump on LS is a well pump and has

nothing to do with this crossing.6/18/2014 Same as last

inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Unable to locate siphon breaker, pump on LS; unable to tell if pump system is part of appurtances. This crossing was listed in the USACE Periodic Inspection as ID#

USACE_CESPK_MA1C_2010_p_0233 for utility pole and 8 inch steel

riser located on landward toe.

FIELD_STRUCT_DESC: 12-inch asphalt coated steel irrigation pipe through the levee, approximately 18-20 feet below the crown. Siphon breaker in 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder--not found. 3-inch electrical conduit through the levee--not found. Utility pole visible on the LS. Well station visible on the LS. No appurtenances visible on the waterside (WS). (Permit No. 4903, 4903-A, 1966 - Mattie B. Zumwalt Company, Inc.) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 9:30:56 AM

LM Start	4.97	Rating **	М	Issue No.	652 (cont)
LM End	4.97	Issue Type +	En	Location *	WS

Photo 1 of 2: UCIP_FA_2016_50480_70150.jpg



View of levee crown looking downstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50480_70149.jpg



View of levee crown looking upstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	4.97	Rating **	М	Issue No.		113		
LM End	4.97	Issue Type +	En	Location *		LS		
Category	Earthen Levee				atitud	e/Longitude		
Category	Category					End		
Item	Encroach	ments		39.2649)22°	39.264922	٥	
пеш				-122.015955 °		-122.015955	0	
DWR ID	DWR_MA0	001_01_f _ 201	6_113					
		Comn	nent Cod	de				
EQ : Equip	ment							
Inspector Comment								
Move the equipment at least 10' away from the levee toe.								

No Photos

LM Start	5.72 Rating ** M		Issue No.		653			
LM End	5.72	Issue Type + En		Location *		LS		
Category				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCI	P Field Study		39.2720	69°	39.272069°		
iteiii				-122.0232	40°	-122.023240 °		
DWR ID								

Comment Code

Inspector Comment

FS_ID:50481 DS_ID:16419 EP_NO: 9476

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 LS outlets becoming over grown with vegetation in the ditch.(DWR Sutter Yard- AFreitag)4/25/2016 WS entry still blocked and wingwalls still cracked.4/20/2015 WS entry still blocked and wingwalls still cracked.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 blocked, no entry on WS. This crossing was listed in the USACE Periodic Inspection as ID#

USACE_CESPK_MA1C_2010_p_0247 for u/s and d/s wing wall shows some cracking and tilting.

FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal irrigation pipe and concrete box culvert through the levee at an unknown depth below the crown. Concrete headwall visible on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9476, 1974 - Ohliger) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 12:45:51 PM

Photo 1 of 2: UCIP_FA_2016_50481_70154.jpg



Overview of levee crown looking downstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	5.72	Rating **	М	Issue No.	653 (cont)			
LM End	5.72	Issue Type +	En	Location *	LS			
Category				GPS Lat	ituc	le/Longitude		
Calegory	Category					End		
Item	DWR UCI	P Field Study		39.27206	9°	39.272069°		
пеш				-122.02324	o°	-122.023240 °		
DWR ID	D							
	Comment Code							

Inspector Comment

FS_ID:50481 DS_ID:16419 EP_NO: 9476

Repair Type: Non-Urgent Crossing Status: Found

some cracking and tilting.

UCIP Comments: 10/24/2016 LS outlets becoming over grown with vegetation in the ditch.(DWR Sutter Yard- AFreitag)4/25/2016 WS entry still blocked and wingwalls still cracked.4/20/2015 WS entry still blocked and wingwalls still cracked.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 blocked, no entry on WS. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0247 for u/s and d/s wing wall shows

FIELD_STRUCT_DESC: 1 of 2: 36-inch corrugated metal irrigation pipe and concrete box culvert through the levee at an unknown depth below the crown. Concrete headwall visible on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9476, 1974 -

Ohliger) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 12:45:51 PM

Photo 2 of 2 : UCIP_FA_2016_50481_70152.jpg



View of crossing looking upstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	5.72	Rating **	М	Issue No.		654		
LM End	5.72	Issue Type +	En	Location *		LS		
Category				GPS Latitude/Longitude				
Calegory				Start		End		
Item	DWR UCI	P Field Study		39.2720	69°	39.272069		
пеш				-122.02324	40 °	-122.023240		
DWR ID						'		

Inspector Comment

Comment Code

FS_ID:50482 DS_ID:17569 EP_NO: 9476

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 LS outlets becoming overgrown with vegetation in the dtch.(DWR Sutter Yard- AFreitag)4/25/2016 WS entry still blocked and wingwalls still cracked.4/20/2015 WS entry still blocked and wingwalls still cracked.6/18/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 blocked, no entry on WS. This crossing was listed in the USACE Periodic Inspection as ID#

USACE_CESPK_MA1C_2010_p_0247 for u/s and d/s wing wall shows

some cracking and tilting.

FIELD_STRUCT_DESC: 2 of 2: 36-inch corrugated metal irrigation pipe (15 feet long) and concrete box culvert through the levee at an unknown depth below the crown. Slide gate located on the waterside (WS). Concrete headwall visible on the landside (LS) toe. (Automatic Board Order (ABO) issued as Permit No. 9476-1974, Howard C. & Nadine M. Ohliger) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 12:47:15 PM

LM Start	5.72	Rating **	М	Issue No.	654 (cont)
LM End	5.72	Issue Type +	En	Location *	LS

Photo 1 of 2: UCIP_FA_2016_50482_70162.jpg



View of levee crown looking downstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50482_70161.jpg



View of levee crown looking upstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	5.77	Rating **	М	Issue No.		35			
LM End	5.77	Issue Type +	Ma	Location *		LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Calegory		Start		End					
Item	Vegetatio	n		39.2727	73°	39.272773°			
пеш		-122.023290							
DWR ID	DWR_MA0	001_01_s _ 201	12_35						
		Comn	nent Cod	de					
V4 : Elderk	perries are	blocking visib	ility and	flood fight	сара	ability.			
	Inspector Comment								

No Photos

LM Start	5.77	Rating **	М	Issue No.		656
LM End	5.77	Issue Type +	En	Location *		LS
Category	ental	GPS La	titud	e/Longitude		
Calegory				Start		End
DWR UCIP Field Study				39.27282	29°	39.272829°
пеш				-122.02328	32°	-122.023282°
DWR ID						

Comment Code

Inspector Comment

FS_ID:50484 DS_ID:16418 EP_NO: 6263

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be in good condition.(DWR Sutter Yard- AFreitag)4/25/2016 Pressure gauge and valve were added to pipe near the siphon breaker on LS shoulder.4/20/2015 Modifications are being made to pipe near the LS shoulder. Not sure what all exactly is being done.6/23/2014 Same as last inspection.

12/17/2013 Same as last inspection.7/18/2013 Debris cleared from in front of LS standpipe.10/19/2012 Remove debris from landward side see photo 2. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0249 however, unable to determine why crossing was marked "U".

FIELD_STRUCT_DESC: 18-inch asphalt coated steel irrigation pipe through the levee, 2 feet below the crown. Siphon breaker on the landside (LS) shoulder. Corrugated metal pipe (CMP) riser located on the LS connects with concrete V-ditch. Dual slant pumps and gate valves on the bank approximately 215 feet from waterside (WS) toe. Pump feeds into single 18-inch steel pipe. 2-inch electrical conduit buried in the same trench as the irrigation pipe. (Permit No. 6263, 1968 - C. Tuttle) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/27/2016 12:48:52 PM

Photo 1 of 2: UCIP_FA_2016_50484_70167.jpg



Overview of levee crown looking downstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	5.77	Rating **	М	Issue No.	656 (cont)		
LM End	5.77	Issue Type +	En	Location *	LS		
Category	ental	GPS Lat	ituc	le/Longitude			
Category				Start		End	
Item	DWR UCI	P Field Study		39.27282	9°	39.272829°	
пеш			-122.02328	2°	-122.023282 °		
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:50484 DS_ID:16418 EP_NO: 6263

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be in good condition.(DWR Sutter Yard- AFreitag)4/25/2016 Pressure gauge and valve were added to pipe near the siphon breaker on LS shoulder.4/20/2015 Modifications are being made to pipe near the LS shoulder. Not sure what all exactly is being done.6/23/2014 Same as last inspection.

12/17/2013 Same as last inspection.7/18/2013 Debris cleared from in front of LS standpipe.10/19/2012 Remove debris from landward side see photo 2. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0249 however, unable to determine why crossing was marked "U". FIELD_STRUCT_DESC: 18-inch asphalt coated steel irrigation pipe through the levee. 2 feet below the crown. Sinhon breaker on the

through the levee, 2 feet below the crown. Siphon breaker on the landside (LS) shoulder. Corrugated metal pipe (CMP) riser located on the LS connects with concrete V-ditch. Dual slant pumps and gate valves on the bank approximately 215 feet from waterside (WS) toe. Pump feeds into single 18-inch steel pipe. 2-inch electrical conduit buried in the same trench as the irrigation pipe. (Permit No. 6263, 1968 - C. Tuttle) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/27/2016 12:48:52 PM

Photo 2 of 2: UCIP_FA_2016_50484_70166.jpg



CMP riser and concrete lined v-ditch located on LS toe.

LM Start	6.12	Rating **	С	Issue No.		75			
LM End	6.12	Issue Type +	En	Location *	LS				
Category	Catagonia Earthen Levee					GPS Latitude/Longitude			
Category	Category					End			
Item	Encroach	Encroachments			3°	39.277733°			
пеш	item				7°	-122.022887°			
DWR ID DWR_MA0001_01_f _ 2015_75									
	Comment Code								

PR : Prunings

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	6.20	Rating **	С	Issue No.		76				
LM End	6.20	Issue Type +	En	Location *		LS				
Category	Earthen L	evee		GPS La	atitud	e/Longitude				
Calegory				Start		End				
Item	Encroachi	ments		39.2789	17°	39.278917°				
пеш				-122.022595 °		-122.022595°				
DWR ID	DWR_MA0	001_01_s _ 201	4_76							
		Comn	nent Coc	de						
PR : Pruni	ngs									
Inspector Comment										

No Photos

LM Start	6.23	Rating **	М	Issue No.		114
LM End	6.23	Issue Type +	En	Location *		LS
Category	evee	GPS Latitude/Longitude				
Calegory				Start		End
Item	Encroachments				93°	39.279293°
item				-122.0225	37°	-122.022537 °
DWR ID	DWR_MA0	001_01_f _ 201	6_114			

Comment Code

DE : Debris

Inspector Comment

Debris found along landside toe on both sides of the ramp (dry wall debris used for erosion control and brick/concrete debris on landside toe.)

LM Start	6.23	Rating **	М	Issue No.	114 (cont)
LM End	6.23	Issue Type +	En	Location *	LS

Photo 1 of 2: FA_2016_MA0001_297_114_20161104_00171.jpg



View of the dry wall debris used for erosion control along the downstream side of the ramp.

Photo 2 of 2: FA_2016_MA0001_297_114_20161104_00172.jpg



View of the bricks and concrete debris along the upstream side of the ramp.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable A: Acceptable M: Not Inspected/Rated M: Minimally Acceptable CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy Ob: Design & System Obsolescence En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	6.24	Rating **	U	Issue No.	657		
LM End	6.24	Issue Type +	En	Location *	LS		
Supplemental				GPS Latitude/Longitude			
Category				Start		End	
Itom	DWR UCIP Field Study			39.2794	62°	39.279462°	
пеш	Item					-122.022461 °	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:50485 DS_ID:16446 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Pvc was back running through the crossing and blocking the screwgate. photo attatched(DWR Sutter Yard- AFreitag)9/28/2016 Crossing has been downgraded from Urgent to Non-Urgent 5-inch PVC pipe was cut to allow the slide gate to close. Need to contact owner to remove unauthorized pipe to comply with Title 23. (DWR UCIP - omagana)4/25/2016 5 inch pvc pipe running through crossing has been cut out to allow the slide gate to close. (DWR Sutter Yard - afreitag)4/20/2015 5inch pvc is still present blocking slide gate from closing. WS end of pipe has been exposed so there is no way to stop water from flowing through pipe during highwater times. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. There is no way to stop water from flowing though pipe during high water times. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Unauthorized 5 inch PVC pipe running through 36 inch crossing. 5 inch PVC crossing prevents slide gate from closing during high water. Debris and sediment inside riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0258 for 5 inch PVC pipe running through culvert. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 36-inch steel (not corrugated metal, as referenced in O&M manual) drainage pipe through the levee, approximately 14-16 feet below levee crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe also visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 331+31)]. FS Date: 10/27/2016 12:49:27 PM



Overview of levee crown looking downstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	6.24	Rating **	U	Issue No.		657 (cont)	
LM End	6.24	Issue Type +	En	Location *		LS	
Category Supplemental				GPS Latitude/Longitude			
				Start		End	
Itom	ltem DWR UCIP Field Study			39.2794	62 °	39.279462°	
item				-122.022461 °		-122.022461 °	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:50485 DS_ID:16446 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Pvc was back running through the crossing and blocking the screwgate. photo attatched(DWR Sutter Yard- AFreitag)9/28/2016 Crossing has been downgraded from Urgent to Non-Urgent 5-inch PVC pipe was cut to allow the slide gate to close. Need to contact owner to remove unauthorized pipe to comply with Title 23. (DWR UCIP - omagana)4/25/2016 5 inch pvc pipe running through crossing has been cut out to allow the slide gate to close. (DWR Sutter Yard - afreitag)4/20/2015 5inch pvc is still present blocking slide gate from closing. WS end of pipe has been exposed so there is no way to stop water from flowing through pipe during highwater times. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. There is no way to stop water from flowing though pipe during high water times. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/19/2012 Unauthorized 5 inch PVC pipe running through 36 inch crossing. 5 inch PVC crossing prevents slide gate from closing during high water. Debris and sediment inside riser. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0258 for 5 inch PVC pipe running through culvert. (DWR UCIP - omagana) FIELD STRUCT DESC: 36-inch steel (not corrugated metal, as referenced in O&M manual) drainage pipe through the levee, approximately 14-16 feet below levee crown. Slide gate in corrugated metal pipe (CMP) riser on the waterside (WS) slope. Pipe also visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 331+31)]. FS Date: 10/27/2016 12:49:27 PM

Photo 2 of 2: UCIP_FA_2016_50485_70176.jpg



CMP riser located on WS slope.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	6.38	Rating **	М	Issue No.		115
LM End	6.38	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory			Start		End	
Item	Encroachments			39.2814	25°	39.281425°
пеш				-122.022000 °		-122.022000 °
DWR ID DWR_MA0001_01_f _ 2016_115						
		Comn	nent Cod	de		
PR : Pruni	ngs					
Inspector Comment						
Remove prunings from the landside toe.						

Photo 1 of 1: FA_2016_MA0001_297_115_20161104_00173.jpg
The state of the s
11 anniamona
11/01/2018

View of the prunings along the landside toe.

LM Start	6.40	Rating **	М	Issue No.		658		
LM End	6.40	Issue Type +	En	Location *		LS		
Category				GPS Latitude/Longitude				
Calegory			Start		End			
Item	DWR UCIP Field Study			39.2817	21 °	39.281721 °		
пеш				-122.0218	94 °	-122.021894°		
DWR ID								

Inspector Comment

Comment Code

FS_ID:50486 DS_ID:16425 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Abandoned(DWR Sutter Yard-AFreitag)4/25/2016 Abandoned crossing.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Need to be properly abandoned concrete structure; plate covers concrete box; Concrete headwall damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0262 for damage to concrete structure (vertical 2 inch wide cracks and spalling visible).

FIELD_STRUCT_DESC: *ABANDONED* 72-inch corrugated metal (precast concrete) drainage pipe through the levee at an unknown depth below the crown. Structure is blocked on the waterside (WS) end with 3-foot concrete plug installed in 1980. Slide gate in concrete well on the landside (LS) shoulder. Concrete headwall at both toes. WS headwall not found. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 339+74)]. FS Date: 10/27/2016 12:52:54 PM

Photo 1 of 2: UCIP_FA_2016_50486_70181.jpg



View of WS no structure features visable.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	6.40	Rating **	М	Issue No.		658 (cont)	
LM End	6.40	Issue Type +	En	Location *		LS	
Supplemental				GPS Latitude/Longitude			
Category			Start		End		
Item	DWR UCIP Field Study			39.2817	21 °	39.281721°	
пеш				-122.0218	94°	-122.021894°	
DWR ID							

Comment Code

Inspector Comment

FS_ID:50486 DS_ID:16425 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Abandoned(DWR Sutter Yard-AFreitag)4/25/2016 Abandoned crossing.4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Need to be properly abandoned concrete structure; plate covers concrete box; Concrete headwall damaged. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0262 for damage to concrete structure (vertical 2 inch wide cracks and spalling visible).

FIELD_STRUCT_DESC: *ABANDONED* 72-inch corrugated metal (precast concrete) drainage pipe through the levee at an unknown depth below the crown. Structure is blocked on the waterside (WS) end with 3-foot concrete plug installed in 1980. Slide gate in concrete well on the landside (LS) shoulder. Concrete headwall at both toes. WS headwall not found. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 339+74)]. FS Date: 10/27/2016 12:52:54 PM

Photo 2 of 2 : UCIP_FA_2016_50486_70180.jpg

Overview of levee crown looking downstream at crossing.

LM Start	6.85	Rating **	N	Issue No.		116	
LM End	6.85	Issue Type +	Ma	Location *		LS	
Category Earthen Levee			GPS Latitude/Longitude				
Category				Start		End	
Trim / Thin Trees			39.288092°		39.288092°		
Item				-122.0210	62°	-122.021062°	
DWR ID DWR_MA0001_01_f _ 2016_116							
Comment Code							
T. T							

T5 : Tree stumps.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	6.99	Rating **	М	Issue No.		659	
LM End	6.99	Issue Type +	En	Location *		LS	
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	P Field Study		39.2901	47 °	39.290147°	
пеш				-122.0215	25 °	-122.021525°	
DWR ID						·	

Inspector Comment

Comment Code

FS_ID:50487 DS_ID:16427 EP_NO: 9482

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Abandoned.(DWR Sutter Yard-AFreitag)4/25/2016 Abandoned pipe. Needs to be properly plugged if it never gets used.4/20/2015 Same as last inspection. Structure is still buried.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/19/2012 Structure is buried and non-operational. This crossing was listed in the USACE Periodic Inspection as ID#

USACE_CESPK_MA1C_2010_p_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS. FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 36-inch reinforced concrete irrigation pipe through the levee at approximately 18 feet below the crown. Wooden slide gates on the waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete headwalls located on both WS and landside (LS). O&M manual structure reference is 4'-9" x 9'-6" concrete box culvert. (Automatic Board Order (ABO) issued as Permit No. 9482, 1974 - Elizabeth M. Farnsworth) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 370+90)].

FS Date: 10/27/2016 12:53:24 PM

LM Start	6.99	Rating **	М	Issue No.	659 (cont)
LM End	6.99	Issue Type +	En	Location *	LS



Overview of levee crown looking downstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50487_70187.jpg



WS-walkway and concrete headwall.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	6.99	Rating **	М	Issue No.	667		_
LM End	6.99	Issue Type +	En	Location *	LS		
Supplemental				GPS La	titud	e/Longitude	
Calegory				Start End			
Item	DWR UCI	P Field Study		39.2901	69°	39.290169	0
пеш				-122.0215	32 °	-122.021532	0
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:50488 DS_ID:17570 EP_NO: 9482

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 WS slide gate was unbruied and opened.(DWR Sutter Yard- AFreitag)4/25/2016 WS slide gate was unburied and opened allowing water to flow through to LS fields.4/20/2015 Structure is operational. WS slide gate was unbrried aloowing water to irrigate the fields. It gets reburried during highwater season. 6/23/2014 Same as last inspection. Soli dug out again and water flowing through crossing.12/17/2013 WS screw gate was closed and buried by soil again.7/18/2013 WS screw gate has been cleared of dirt and is open to irrigate LS fields. LS outlet is still mostly blocked by sediment.10/19/2012 Structure is buried and nonoperational. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS. FIELD_STRUCT_DESC: 2 of 2: 36-inch reinforced concrete irrigation pipe through the levee, approximately 18 feet below the crown. Wooden slide gates on the waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete structure located on both WS and landside (LS). Inspector noticed that during 2015-2016 that this crossing is used in the spring and summer, and buried in the winter. O&M manual structure reference is 4'-9" x 9'-6" concrete box culvert. (Automatic Board Order (ABO) issued as Permit No. 9482-1974, Elizabeth M. Farnsworth) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 370+90)]. FS Date: 10/27/2016 12:58:16 PM



Overview of levee crown looking downstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	6.99	Rating **	М	Issue No. 667 (cont)		667 (cont)		
LM End	6.99	Issue Type +	En	Location *	LS			
Category				GPS Latitude/Longitude				
Calegory			Start End					
Item	DWR UC	P Field Study		39.2901	69°	39.290169°		
пеш				-122.0215	32°	-122.021532 °		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:50488 DS_ID:17570 EP_NO: 9482

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 WS slide gate was unbruied and opened.(DWR Sutter Yard- AFreitag)4/25/2016 WS slide gate was unburied and opened allowing water to flow through to LS fields.4/20/2015 Structure is operational. WS slide gate was unbrried aloowing water to irrigate the fields. It gets reburried during highwater season. 6/23/2014 Same as last inspection. Soli dug out again and water flowing through crossing.12/17/2013 WS screw gate was closed and buried by soil again.7/18/2013 WS screw gate has been cleared of dirt and is open to irrigate LS fields. LS outlet is still mostly blocked by sediment.10/19/2012 Structure is buried and nonoperational. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0288 for sluice gate closed and backfilled on WS and full of sediment with wingwall cracked on LS. FIELD_STRUCT_DESC: 2 of 2: 36-inch reinforced concrete irrigation pipe through the levee, approximately 18 feet below the crown. Wooden slide gates on the waterside (WS) end. Sliding metal gate noted in O&M manual. Concrete structure located on both WS and landside (LS). Inspector noticed that during 2015-2016 that this crossing is used in the spring and summer, and buried in the winter. O&M manual structure reference is 4'-9" x 9'-6" concrete box culvert. (Automatic Board Order (ABO) issued as Permit No. 9482-1974, Elizabeth M. Farnsworth) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 370+90)]. FS Date: 10/27/2016 12:58:16 PM

Photo 2 of 2: UCIP_FA_2016_50488_70193.jpg



WS-walkway and concrete headwall.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	7.20	Rating **	U	Issue No.		82	
LM End	7.26	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Calegory				Start		End	
Item	Encroachi	ments		39.2931	51 °	39.294042	٥
item				-122.0213	56°	-122.021449	۰
DWR ID	DWR_MA0	001_01_s _ 201	6_82				
		Comn	nent Cod	de			
DT : Ditch							
		Inspecto	or Comm	nent			

No Photos

LM Start	7.27	Rating **	М	Issue No.		661	
LM End	7.27	Issue Type +	En Location *		LS		
Category	Suppleme	ental		GPS La	titud	e/Longitude	
Calegory				Start		End	
Item	DWR UC	P Field Study		39.2940	74°	39.294074	0
пеш				-122.0214	35°	-122.021435	0
DWR ID							

Comment Code

Inspector Comment

FS_ID:50489 DS_ID:16456 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Notes mentioned needing to confirm size of the culvert but was unable to access the ends at this

inspection.(DWR Sutter Yard- AFreitag)4/25/2016 Second slide gate was held open to allow water to flow through to the LS

ditch.4/20/2015 Same as last inspection. Rebar pin was still inplace holding the gate opened.6/23/2014 Same as last

inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Sediment and debris on wateward and landward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0293 for wooden

Inspection as ID# USACE_CESPK_MA1C_2010_p_0293 for wooden slide gate held open by a piece of rebar acting as a pin.
FIELD_STRUCT_DESC: 60-inches by 72-inches (5-foot by 6-foot) reinforced concrete box irrigation culvert (O&M manual references 3-foot and 10-inch by 6-foot culvert) through the levee_approximately 12:

foot and 10-inch by 6-foot culvert) through the levee, approximately 12-15 feet below the crown. Two wooden slide gates on the waterside (WS) end. Concrete v-ditch along landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 385+33.5)].

FS Date: 10/27/2016 12:59:31 PM

Photo 1 of 2: UCIP_FA_2016_50489_70202.jpg



Overview of levee crown looking downstream at crossing.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	7.27	Rating **	М	Issue No.	(661 (cont)	
LM End	7.27	Issue Type + En		Location *		LS	
Category	Suppleme	ental		GPS La	titud	e/Longitude	
Calegory				Start		End	
Item	DWR UCI	P Field Study		39.29407	'4 °	39.294074	0
пеш				-122.02143	85 °	-122.021435	0
DWR ID							

Inspector Comment

Comment Code

FS_ID:50489 DS_ID:16456 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Notes mentioned needing to confirm size

of the culvert but was unable to access the ends at this

inspection.(DWR Sutter Yard- AFreitag)4/25/2016 Second slide gate was held open to allow water to flow through to the LS

ditch.4/20/2015 Same as last inspection. Rebar pin was still inplace

holding the gate opened 6/23/2014 Same as last

inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Sediment and debris on wateward and landward side. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0293 for wooden slide gate held open by a piece of rebar acting as a pin.

FIELD_STRUCT_DESC: 60-inches by 72-inches (5-foot by 6-foot) reinforced concrete box irrigation culvert (O&M manual references 3foot and 10-inch by 6-foot culvert) through the levee, approximately 12-15 feet below the crown. Two wooden slide gates on the waterside (WS) end. Concrete v-ditch along landside (LS) toe. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 385+33.5)].

FS Date: 10/27/2016 12:59:31 PM

Photo 2 of 2: UCIP_FA_2016_50489_70204.jpg



Overview of levee crown looking upstream at crossing.

LM Start	7.28	Rating **	М	Issue No.		117	
LM End	7.28	Issue Type +	Ма	Location *	LS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start End			
Item	Trim / Thi	n Trees		39.294273°		39.294273°	
пеш				-122.0214	93 °	-122.021493°	
DWR ID DWR_MA0001_01_f _ 2016_117							
Comment Code							

T1: Trim trees to at least five feet above ground level.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	7.51	Rating **	A/W	Issue No.		24	
LM End	7.80	Issue Type +	Ob	Location *		WS	
Category		GPS La	atitud	e/Longitude			
Calegory				Start		End	
Item	Vegetatio	n		39.2975	33°	39.297420	0
пеш				-122.0217	79°	-122.027010	0
DWR ID	DWR_MA0	001_01_s _ 201	12_24				
		Comn	nent Cod	de			
V8 : Enviro	onmental F	Requirements.					
		Inspecto	or Comm	nent			

No Photos

LM Start	7.58	Rating **	M	Issue No.		662	
LM End	7.58	Issue Type +	En	Location *	WS		
Category	Suppleme	ental		GPS La	itud	e/Longitude	
Calegory		Start		End			
Item	DWR UC	IP Field Study		39.29738	4°	39.297384	0
пеш				-122.02298	9°	-122.022989	0
DWR ID							

Comment Code Inspector Comment

FS_ID:50490 DS_ID:16455 EP_NO: 12334 Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 10/24/2016 Pump removed from WS pipe. Pipe end

left open and should be capped.(DWR Sutter Yard-

AFreitag)4/25/2016 No LS inlet found4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Siphon breaker housing unit is bent and has debris inside. LS outlet not found.

FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3 feet below the crown. Centrifugal pump on the waterside (WS) bank. Siphon breaker on the landside (LS) shoulder of the levee. (Permit No. 12334, 1978 - Jean James) [Additional

Reference(s): DWR Levee Log, 1992]. FS Date: 10/27/2016 1:07:15 PM



View of WS-no features on levee shoulder or slope.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	7.58	Rating **	М	Issue No.		662 (cont)			
LM End	7.58	Issue Type +	En	Location *		WS			
Category	Supplemental Supplemental				GPS Latitude/Longitude				
Calegory			Start		End				
Item	DWR UCI	P Field Study		39.29738	4 °	39.297384	٥		
пеш				-122.02298	9°	-122.022989	°		
DWR ID									

Inspector Comment

Comment Code

FS_ID:50490 DS_ID:16455 EP_NO: 12334

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Pump removed from WS pipe. Pipe end

left open and should be capped.(DWR Sutter Yard-

AFreitag)4/25/2016 No LS inlet found4/20/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 Siphon breaker housing unit is bent and has debris inside. LS outlet not

FIELD_STRUCT_DESC: 10-inch asphalt coated steel irrigation pipe through the levee, 3 feet below the crown. Centrifugal pump on the waterside (WS) bank. Siphon breaker on the landside (LS) shoulder of

the levee. (Permit No. 12334, 1978 - Jean James) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 1:07:15 PM





Pump located on WS bank.

LM Start	7.70	Rating **	М	Issue No.	52				
LM End	7.70	Issue Type +	Ma	Location *	WS				
Category	Category Earthen Levee				GPS Latitude/Longitude				
Category			Start		End				
Item	Vegetatio	n		39.29730	3°	39.297303 °	>		
пеш				-122.02525	7°	-122.025257 °	>		
DWR ID	DWR_MA0	001_01_s _ 201	12_52						
		Comn	nent Coc	le					

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

		D .: ++			ı		
LM Start	8.72	Rating **	М	Issue No.		119	
LM End	8.72	Issue Type +	Ma	Location *		LS	
Category	evee		GPS La	atitud	le/Longitude		
Calegory				Start		End	
Item	Slope Sta	bility		39.3082	272°	39.308272°	
iteiii				-122.0312	215°	-122.031215°	
DWR ID DWR_MA0001_01_f _ 2016_119							
		Comn	nent Cod	de			
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	anc	I prevent	
		Inspecto	or Comm	nent			



View of the slope instability caused by vehicles along the landside slope.

LM Start	8.73	Rating **	М	Issue No.		25			
LM End	9.19	Issue Type +	En	Location *		LS			
Category	Earthen L	evee		GPS L	atitud	le/Longitude			
Calegory				Start		End			
Item	Encroach	ments		39.3083	90°	39.315125°			
пеш				-122.0311	57°	-122.030206°			
DWR ID DWR_MA0001_01_s _ 2012_25									
		Comn	nent Cod	de					
DT : Ditch									
		Inspecto	or Comm	nent					



View of the ag. ditch along the L/S toe.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	8.92	Rating **	М	Issue No.		663
LM End	8.92	Issue Type +	e + En Location *			LS
Category				GPS Latitude/Longitude		
Calegory			Start		End	
Item	DWR UCI	P Field Study		39.3111	03 °	39.311103°
пеш				-122.0305	41 °	-122.030541 °
DWR ID						

Inspector Comment

Comment Code

FS_ID:50491 DS_ID:16454 EP_NO: 9466

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Abandoned.(DWR Sutter Yard-AFreitag)4/25/2016 Crossing appears to be abandoned. Power lines cut from the panels inside the concrete structure on LS.4/20/2015 Same as last inspection.6/23/2014 Same as last

inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection.10/30/2012 No access to inspect slide gate on LS. Roof of pumping house deteriorating and debris scattered on LS. WS crossing not found. This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_345 no issues recorded.

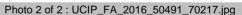
FIELD_STRUCT_DESC: *ABANDONED* 24-inch steel irigation pipe through the levee, approximately 8-10 feet below the crown. Slide gate in concrete riser on the landside (LS) slope. Pump house encroaches into the LS slope. Two service poles on the LS shoulder. No visible appurtenances found on the waterside (WS) toe. Power source cut on the LS. (Automatic Board Order (ABO) issued as Permit No. 9466, 1974 - Roman Catholic Bishop of Sacramento). [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 1:08:49 PM

LM Start	8.92	Rating **	М	Issue No.	663 (cont)
LM End	8.92	Issue Type +	En	Location *	LS



Overview of levee crown looking downstream at crossing.





Overview of levee crown looking upstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	10.09	Rating **	М	Issue No.		664		
LM End	10.09	Issue Type +	En	Location *		LS		
Supplemental				GPS Latitude/Longitude				
Calegory					Start			
Item	DWR UCI	IP Field Study		39.32812	1°	39.328121	0	
пеш				-122.02926	2 °	-122.029262	0	
DWR ID								

No Photos

Inspector Comment

Comment Code

FS_ID:50492 DS_ID:17656 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 10/24/2016 Abandoned.(DWR Sutter Yard-AFreitag)4/25/2016 Unable to locate.4/20/2015 Unable to locate.6/23/2014 Unable to locate.7/18/2013 Same as last

inspection. Unable to locate.

FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee at an unknown depth below the crown. Automatic drainage gate on the outlet end of the pipe. (USACE, 1955). [Additional Reference(s): USACE Sacramento O&M Manual 137, August 1955, (Station 538+42)].

FS Date: 10/27/2016 1:09:25 PM

LM Start	10.09	Rating **	М	Issue No.		665	
LM End	10.09	Issue Type +	En	Location *		LS	
Category				GPS La	atitud	le/Longitude	
Calegory	alegory					End	
Item	DWR UCI	P Field Study		39.3281	21°	39.328121 °	
item				-122.0292	62°	-122.029262 °	
DWR ID	RID						
Comment Code							

No Photos

Inspector Comment

FS_ID:50493 DS_ID:17655 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 10/24/2016 Unable to locate.(DWR Sutter Yard-AFreitag)4/25/2016 Unable to locate.4/20/2015 Unable to locate.6/23/2014 Unable to locate.12/17/2013 Unable to locate.7/18/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee at an unknown depth below the crown. Slide gate on

the outlet end of the pipe. [Additional Reference(s): USACE Sacramento O&M Manual 137, August 1955, (Station 538+42)].

FS Date: 10/27/2016 1:09:53 PM

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	10.13	Rating **	М	Issue No.		18
LM End	10.13	Issue Type +	Ma	Location *		WS
Category	Earthen L	evee		GPS La	atituc	le/Longitude
Calegory				Start		End
Item	Erosion / I	Bank Caving		39.3286	97°	39.328697°
пеш				-122.0292	-122.029262 °	
DWR ID DWR_MA0001_01_s _ 2012_18						
		Comn	nent Cod	de		
E1 : Note a	and monito	r erosion site				
		Inspecto	or Comm	nent		
Monitor the erosion site.						



View of the erosion along the waterside of the levee.

LM Start	10.21	Rating **	U	Issue No.		666		
LM End	10.21	Issue Type +	En	Location *		WS		
Category				GPS Latitude/Longitude				
Calegory	Category					End		
Item	DWR UCI	P Field Study		39.3297	49°	39.329749°		
пеш				-122.0296	02°	-122.029602°		
DWR ID								
Comment Code								

Inspector Comment

FS_ID:50494 DS_ID:16453 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Ws erosion still present. Looks to be just from rain run off.(DWR Sutter Yard- AFreitag)4/25/2016 Erosion still present by the WS pipes. (DWR Sutter Yard - afreitag)4/20/2015 Erosion happening near WS shoulder where the pipes enter the levee. May just be caused by rain runoff. (DWR Sutter Yard afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard afreitag)10/30/2012 Landward side has been completely altered. Need to find permit for new work. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, approximately 15-20 feet below the crown. Gate valve on the waterside (WS) end. Dual 14-inch line visible on the landside (LS). Unable to determine if this is the same crossing as DS_ID 17656. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 538+42)]. FS Date: 10/27/2016 1:14:36 PM

Photo 1 of 2 : UCIP_FA_2016_50494_70246.jpg



Overview of levee crown looking upstream at multiple crossings.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	10.21	Rating **	U	Issue No.		666 (cont)		
LM End	10.21	Issue Type +	En	Location *	WS			
Supplemental				GPS Latitude/Longitude				
Calegory				Start End				
Item	DWR UC	P Field Study		39.32974	9°	39.329749°		
пеш			-122.02960	2°	-122.029602°			
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:50494 DS_ID:16453 EP_NO: N/A Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Ws erosion still present. Looks to be just from rain run off.(DWR Sutter Yard- AFreitag)4/25/2016 Erosion still present by the WS pipes. (DWR Sutter Yard - afreitag)4/20/2015 Erosion happening near WS shoulder where the pipes enter the levee. May just be caused by rain runoff. (DWR Sutter Yard afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard afreitag)10/30/2012 Landward side has been completely altered. Need to find permit for new work. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, approximately 15-20 feet below the crown. Gate valve on the waterside (WS) end. Dual 14-inch line visible on the landside (LS). Unable to determine if this is the same crossing as DS_ID 17656. [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 538+42)]. FS Date: 10/27/2016 1:14:36 PM



Dual 14-inch pipes along catwalk. 24-inch pipe crosses approximately 8 feet below catwalk floor.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	10.21	Rating **	U	Issue No.		669	
LM End	10.21	Issue Type +	En	Location *		WS	
Category	ental	GPS Latitude/Longitude					
Calegory				Start End			
Item	DWR UCI	P Field Study		39.3297	50°	39.329750°	
пеш				-122.0296	02°	-122.029602°	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:50495 DS_ID:16452 EP_NO: 1800 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Ws erosion still present. Looks to be just from rain run off.(DWR Sutter Yard- AFreitag)4/25/2016 Erosion still present by the WS pipes. (DWR Sutter Yard - afreitag)4/20/2015 Erosion happening near WS shoulder where the pipes enter the levee. May just be caused by rain runoff. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 This crossing has been completely modified-need recent permit issued to allow work on levee and levee toe. Was levee compacted to CVFPB standards? This crossing was listed in the USACE Periodic Inspection as ID#

USACE_CESPK_MA1C_2010_p_0371 unable to determine why this crossing was assigned "U". (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation pipe through the levee, approximately 3-4 feet below the crown. Siphon breakers on the waterside (WS) end. (Permit No. 1800, 1959 - Jimeno Rancho) New pipe visible on the landside (LS). [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 1:16:28 PM

LM Start	10.21	Rating ** U		Issue No.	669 (cont)	
LM End	10.21	Issue Type +	En	Location *	WS	

Photo 1 of 2 : UCIP_FA_2016_50495_70236.jpg



Overview of levee crown looking upstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50495_70235.jpg



View of 2-14 inch crossings through levee on WS.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	10.21	Rating **	U	Issue No.	668	
LM End	10.21	Issue Type +	En	Location *	WS	
Category			GPS Latitude/Longitude			
Calegory	ory			Start		End
Item	DWR UCI	P Field Study		39.32975	0°	39.329750 °
пеш				-122.02960	2°	-122.029602°
DWR ID						·

Comment Code

Inspector Comment

FS_ID:50496 DS_ID:17571 EP_NO: 1800 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Ws erosion still present. Looks to be just from rain run off.(DWR Sutter Yard- AFreitag)4/25/2016 Erosion still present near the WS pipes. (DWR Sutter Yard - afreitag)4/20/2015 Erosion happening on WS shoulder near where pipes enter the levee. May just be from rain runoff. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 This crossing has been completely modified--need recent permit issued to allow work on levee and levee toe. Was levee compacted to CVFPB standards? This crossing was listed in the USACE Periodic Inspection as ID# USACE_CESPK_MA1C_2010_p_0371 unable to determine why this crossing was assigned "U". (DWR UCIP - omagana) FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation pipe through the levee, approximately 3-4 feet below the crown. Siphon breaker located on the waterside (WS) end. (Permit No. 1800, 1959 - Jimeno Rancho) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/27/2016 1:16:52 PM

LM Start	10.21	Rating **	U	Issue No.	668 (cont)
LM End	10.21	Issue Type +	En	Location *	WS



Overview of levee crown looking upstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50496_70227.jpg



View of WS looking at crossing.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable AW: Acceptable but Monitor & Maintain

** Rating

A: Acceptable M: N: Not Inspected/Rated M: Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	10.32	Rating **	U	Issue No.		636		
LM End	10.32	Issue Type +	En	Location *	LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory						End		
Item	Encroach	ments		39.3313	20°	39.331320°		
item			-122.029932 °		-122.029932 °			
DWR ID DWR_MA0001_01_f _ 2014_636								
		Comn	nent Cod	de				
PR : Pruni	ngs							
			_					
		Inspecto	or Comm	nent				
Remove prunings from the landside toe.								



View of the pruning along the landside toe.

LM Start	10.78	Rating **	A/W	Issue No.		637	
LM End	10.78	Issue Type +	En	Location *	LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude	
Category			Start		End		
Encroachments				39.3375	23°	39.337523°	
пеш				-122.032437 ° -122.032437			
DWR ID	DWR_MA0	001_01_f _ 201	4_637				
		Comn	nent Cod	de			
PR : Pruni	ngs						
Inspector Comment							



View of the pruning along the landside toe.

LM Start	10.96	Rating **	U	Issue No.		638			
LM End	10.96	Issue Type +	En	Location *	LS				
Category	Earthen Levee					GPS Latitude/Longitude			
Calegory				Start		End			
Item	Encroach	ments		39.3402	17°	39.340217°			
item				-122.0326	05°	-122.032605 °			
DWR ID	DWR_MA0	001_01_f _ 201	4_638						
		Comn	nent Coo	de					
PR : Pruni	ngs								
		Inspecto	or Comm	nent					
Remove p	Remove prunings from the landside toe.								



View of the pruning along the landside toe.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.00	Rating **	М	Issue No.		120		
LM End	11.00	Issue Type +	Ma	Location *	WS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory			Start		End			
Item	n Trees		39.3407	'28 °	39.340728°			
пеш				-122.032897 °		o7° -122.032897°		
DWR ID DWR_MA0001_01_f _ 2016_120								
		Comn	nent Cod	le				
T1: Trim t	rees to at I	east five feet	above g	round level				
			0					
		Inspecto	or Comm	ient				



View of the tree with overhanging branches.

LM Start	11.01	Rating **	М	Issue No.		12		
LM End	11.01	Issue Type +	Ма	Location *		LS		
Category	Earthen L	evee		GPS Latitude/Longitude				
Calegory				Start		End		
Vegetation				39.3407	74°	39.340774°		
пеш	item				72°	-122.032872°		
DWR ID	DWR_MA0	001_01_s _ 201	12_12					
		Comn	nent Cod	de				
V4 : Elderb	perries are	blocking visib	ility and	flood fight	сара	bility.		
	Inspector Comment							

No Photos

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.01	Rating **	Rating ** M			670
LM End	11.01	Issue Type +	En	Location *		LS
Category Supplemental			GPS La	atitud	le/Longitude	
Calegory				Start		End
Item	DWR UC	IP Field Study		39.3408	67°	39.340867 °
item				-122.0329	32°	-122.032932 °
DWR ID						

Inspector Comment

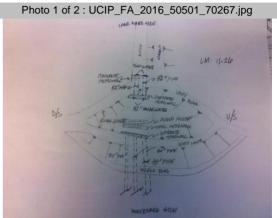
Comment Code

FS_ID:50501 DS_ID:16449 EP_NO: 187

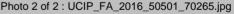
Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears abandoned. Slide gate needs to be dug out and fully closed to prevent water flow during high water.(DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be abandoned.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/18/2013 Same as last inspection. 10/30/2012 Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be properly abandoned. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0393 missing gate. FIELD_STRUCT_DESC: 1 of 2: 52-inch corrugated metal irrigation pipe, 48-inch measured, through the levee, approximately 15 feet below the crown. Slide gate on the waterside (WS) and flap gate on the landside (LS). Concrete headwalls at both WS and LS. This structure is associated with another abandoned structure located on the WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (two 30-inch pipes and one 48-inch pipe). (Original structure installed under Permit No. 187, 1921 - Compton-Delevan Irrigation District-Maxwell I.D., new pump and platform installed and old pump house removed under Permit No. 9183-1973, Maxwell Irrigation District) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/27/2016 1:23:08 PM

LM Start	11.01	Rating **	М	Issue No.	670 (cont)
LM End	11.01	Issue Type +	En	Location *	LS



Sketch of structure located at levee mile 11.26.





View of abandoned structure located on WS (inside ring levee).

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: C: Corrected Ob: Design & System Obsolescence

U: Unacceptable AW: Acceptable but Monitor & Maintain Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

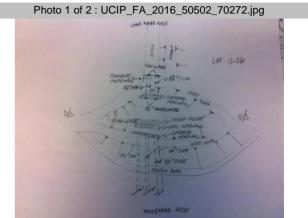
LM Start	11.02	Rating **	U	Issue No.	671		
LM End	11.02	Issue Type +	En	Location *	LS		
Category				GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	DWR UCI	P Field Study		39.3409	71 °	39.340971 °	
пеш				-122.0329	57°	-122.032957°	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:50502 DS_ID:17572 EP_NO: 187 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears abandoned. Slide gate neds to be replaced or pipe end capped to prevent water flow during high water. (DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be abandoned. Slide gate needs to be replaced or pipe needs to be plugged to prevent water flow during high water season. (DWR Sutter Yard - afreitag)4/21/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Missing positive closure device. Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be abandoned properly. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0393 missing gate. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 2 of 2: 52-inch corrugated metal irrigation pipe, 48-inch measured (2012), through the levee, approximately 15 feet below the crown. Slide gate on the waterside (WS) and flap gate on the landside (LS). Concrete headwalls at both ends. This structure is associated with another abandoned structure located on the WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (two 30-inch pipes and one 48-inch pipe). (Original structure installed under Permit No. 187, 1921 - Compton-Delevan Irrigation District-Maxwell I.D., new pump and platform installed and old pump house removed under Permit No. 9183-1973, Maxwell Irrigation District) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/27/2016 1:24:27 PM



Sketch of structure through levee ring located at levee mile 11.26.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.02	Rating **	U	Issue No.	671 (cont)		
LM End	11.02	Issue Type +	En	Location *		LS	
Category				GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UC	P Field Study		39.3409	71 °	39.340971 °	
пеш				-122.0329	57°	-122.032957 °	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:50502 DS_ID:17572 EP_NO: 187 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears abandoned. Slide gate neds to be replaced or pipe end capped to prevent water flow during high water. (DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be abandoned. Slide gate needs to be replaced or pipe needs to be plugged to prevent water flow during high water season. (DWR Sutter Yard - afreitag)4/21/2015 Same as last inspection. (DWR Sutter Yard - afreitag)6/23/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Missing positive closure device. Need to determine if structure is still in use--contact owner. If abandoned structure--structure needs to be abandoned properly. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0393 missing gate. (DWR UCIP - omagana)

FIELD_STRUCT_DESC: 2 of 2: 52-inch corrugated metal irrigation pipe, 48-inch measured (2012), through the levee, approximately 15 feet below the crown. Slide gate on the waterside (WS) and flap gate on the landside (LS). Concrete headwalls at both ends. This structure is associated with another abandoned structure located on the WS. Abandoned structure includes pump house, multiple concrete walls, and 3 additional crossings (two 30-inch pipes and one 48-inch pipe). (Original structure installed under Permit No. 187, 1921 - Compton-Delevan Irrigation District-Maxwell I.D., new pump and platform installed and old pump house removed under Permit No. 9183-1973, Maxwell Irrigation District) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/27/2016 1:24:27 PM



Abandoned structure (multiple headwalls and pump structure) located near the lower levee (ring levee).

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.19	Rating **	U	Issue No.		672
LM End	11.19	Issue Type +	En	Location *		LS
Category				GPS La	tituc	le/Longitude
Calegory				Start		End
Item	DWR UCIP Field Study			39.34320	63 °	39.343263°
item				-122.0321	52 °	-122.032152 °
DWR ID						

Inspector Comment

Comment Code

FS_ID:50504 DS_ID:17691 EP_NO: 17471 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Sinkhole still present.(DWR Sutter Yard-AFreitag)4/25/2016 Sink hole between the standpipes seems to be getting worse. Measurements of the hole are 3' wide x 3' long x 3' deep. The pipe was flowing water and there was water present in the bottom of the sink hole. (DWR Sutter Yard - afreitag)4/21/2015 Sink hole still present between risers. (DWR Sutter Yard afreitag)6/23/2014 Standing water was present in the bottom of the sinkhole. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Erosion between risers with slide gates located on waterward side; This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0398 for possible sinkhole between access gate structures. (DWR UCIP - omagana)

FIELD STRUCT DESC: 1 of 2: 24-inch high-density polyethylene (HDPE) irrigation pipe to be connected to the existing corrugated metal pipe (CMP) riser within the waterside (WS) and parallel to the right (west) bank levee of the Sacramento River. (Permit 17471, 2002 -Maxwell Irrigation District).

FS Date: 10/27/2016 1:26:15 PM

LM Start	11.19	Rating **	U	Issue No.	672 (cont)
LM End	11.19	Issue Type +	En	Location *	LS

Photo 1 of 2: UCIP_FA_2016_50504_70327.jpg



Overview of levee crown looking downstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50504_70326.jpg



View of concrete distribution box located on LS toe.

Location + Issue Type Ma: Maintenance Deficiancy LS: Land Side N/A: Not Applicable : Acceptable N: Not Inspected/Rated WS: Water Side Minimally Acceptable Ob : Design & System Obsolescence C : Corrected U : Unacceptable A/W: Acceptable but Monitor & Maintain En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.19	Rating **	U	Issue No.		673		
LM End	11.19	Issue Type +	En	Location *		LS		
Category				GPS Latitude/Longitude				
Calegory				Start		End		
ltom	DWR UCIP Field Study			39.34328	3°	39.343283	٥	
Item				-122.03214	5°	-122.032145	0	
DWR ID								

Inspector Comment

Comment Code

FS_ID:50505 DS_ID:17624 EP_NO: 17471 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Sinkhole still present.(DWR Sutter Yard-AFreitag)4/25/2016 Sink hole between risers was getting worse (3' wide x 3' long x 3' deep). New smaller sink hole is appearing on the upstream side of this stand pipe (4.5" wide x 20" deep). (DWR Sutter Yard - afreitag)4/21/2015 Sink hole still present between risers. (DWR Sutter Yard - afreitag)6/23/2014 Standing water was present in the bottom of the sinkhole. (DWR Sutter Yard - afreitag)12/17/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/18/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/30/2012 Erosion between risers with slide gates located on waterward side; This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0398 for possible sinkhole between access gate structures. (DWR UCIP - omagana) FIELD_STRUCT_DESC: 2 of 2: 18-inch high-density polyethylene (HDPE) irrigation pipe connected to the existing corrugated metal pipe (CMP) riser within the waterside (WS) and parallel to the right (west) bank levee of the Sacramento River. Pipe depth through the levee unknown. Pump station is located approximately 450 feet upstream of crossing. (Permit 17471, 2002 - Maxwell Irrigation District) FS Date: 10/27/2016 1:26:46 PM

LM Start	11.19	Rating **	U	Issue No.	673 (cont)
LM End	11.19	Issue Type +	En	Location *	LS



Overview of levee crown looking downstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50505_70324.jpg



View of concrete distribution box located on LS toe.

* Location
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating
A: Acceptable N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
C: Corrected Ob: Design & System Obsolescence
U: Unacceptable A/W: Acceptable but Monitor & Maintain

** Rating
A: Acceptable M: N: Not Inspected/Rated M: Ma: Maintenance Deficiancy
Ob: Design & System Obsolescence
En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.21	Rating **	М	Issue No.		27		
LM End	11.46	Issue Type +	En	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Calegory			Start		End			
Item	Encroach	ments		39.3435	42°	39.347185°		
				-122.031525°				
DWR ID DWR_MA0001_01_s _ 2012_27								
Comment Code								
DT : Ditch								
		Inspecto	or Comm	nent				

Photo 1 of 1: FA_2016_MA0001_297_27_20160823_00013.jpg



View of the ag. ditch along the landside toe.

LM Start	11.27	Rating **	М	Issue No.		674	
LM End	11.27	Issue Type +	En	Location *	LS		
Supplemental				GPS Latitude/Longitude			
Calegory			Start		End		
Item	DWR UC	P Field Study		39.3443	76°	39.344376°	
пеш				-122.0317	92°	-122.031792°	
DWR ID							
Comment Code							

Inspector Comment

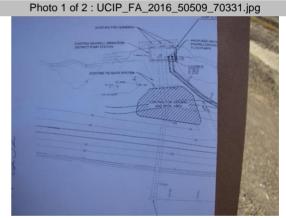
FS_ID:50509 DS_ID:20582 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be in good condition.(DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be in good condition.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine encroachment permit associated with this crossing.

FIELD_STRUCT_DESC: [Maxwell Irrigation District] 1 of 3: 24-inch steel irrigation pipe through the levee at an unknown depth below the crown. Crossing is tied to existing Maxwell Irrigation District Pump Station located on the waterside (WS). Siphon breaker inside corrugated metal pipe (CMP) riser located on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012.

FS Date: 10/27/2016 1:29:29 PM



Drawing of existing Maxwell Irrigation District Conveyance Pipeline (DWG available through Permit No. 17471 for work located at LM 11.51).

* Location	** Rating		+ Issue Type		
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy		
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence		
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement		

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.27	Rating **	М	Issue No.		674 (cont)	
LM End	11.27	Issue Type +	En	Location *	LS		
Category	ental	GPS Latitude/Longitude					
Category				Start		End	
Item	DWR UCI	P Field Study		39.34437	'6 °	39.344376°	
пеш				-122.03179)2 °	-122.031792°	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:50509 DS_ID:20582 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be in good condition.(DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be in good condition.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine encroachment permit associated with this crossing.

FIELD_STRUCT_DESC: [Maxwell Irrigation District] 1 of 3: 24-inch steel irrigation pipe through the levee at an unknown depth below the crown. Crossing is tied to existing Maxwell Irrigation District Pump Station located on the waterside (WS). Siphon breaker inside corrugated metal pipe (CMP) riser located on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012.

FS Date: 10/27/2016 1:29:29 PM

Photo 2 of 2: UCIP_FA_2016_50509_70333.jpg



Overview of levee crown looking downstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.27	Rating **	М	Issue No.	675		
LM End	11.27	Issue Type +	En	Location *	LS		
Category	ental	GPS Latitude/Longitude					
Category				Start		End	
Item	DWR UCI	P Field Study		39.34439	o°	39.344390°	
пеш				-122.03178	7°	-122.031787°	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:50510 DS_ID:20583 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears to be in good condition.(DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be in good condition.4/21/2015 Same as last inspection.Need to determine encroachment permit for this crossing.7/22/2013 Same as last inspection.12/17/2013 Same as last inspection.6/23/2014 Same as last inspection.

FIELD_STRUCT_DESC: [Maxwell Irrigation District] 2 of 3: 24-inch steel irrigation pipe through the levee at an unknown depth below the crown. Crossing is tied to existing Maxwell Irrigation District Pump Station located on the waterside (WS). Siphon breaker inside corrugated metal pipe (CMP) riser located on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012.

FS Date: 10/27/2016 1:30:09 PM

LM Start	11.27	Rating **	М	Issue No.	675 (cont)
LM End	11.27	Issue Type +	En	Location *	LS



Drawing of existing Maxwell Irrigation District Conveyance Pipeline (DWG available through Permit No. 17471 for work located at LM 11.51).

Photo 2 of 2: UCIP_FA_2016_50510_70338.jpg



Pump Station located on WS.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.27	Rating **	М	Issue No.	676		
LM End	11.27	Issue Type +	En	Location *	LS		
Category Supplemental				GPS Latitude/Longitude			
				Start		End	
Item	DWR UCI	P Field Study		39.34440	o°	39.344400°	
пеш				-122.03178	5°	-122.031785°	
DWR ID							
Comment Code							

Inspector Comment

FS_ID:50511 DS_ID:20584 EP_NO: N/A

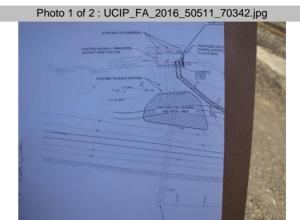
Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 appears to be in goo condition.(DWR Sutter Yard- AFreitag)4/25/2016 Crossing appears to be in good condition.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Need to determine encroachment permit for this crossing.

FIELD_STRUCT_DEŠC: [Maxwell Irrigation District] 3 of 3: 24-inch steel irrigation pipe through the levee at an unknown depth below the crown. Crossing is tied to existing Maxwell Irrigation District Pump Station located on the waterside (WS). Siphon breaker inside corrugated metal pipe (CMP) riser located on the landside (LS) shoulder. No permit has been identified since crossing was field discovered in 2012.

FS Date: 10/27/2016 1:30:49 PM

LM Start	11.27	Rating **	М	Issue No.	676 (cont)
LM End	11.27	Issue Type +	En	Location *	LS



Drawing of existing Maxwell Irrigation District Conveyance Pipeline (DWG available through Permit No. 17471 for work located at LM 11.51).

Photo 2 of 2: UCIP_FA_2016_50511_70343.jpg



Maxwell Irrigation District Pump Station located on WS.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	11.46	Rating **	М	Issue No.		121	
LM End	11.46	Issue Type +	Ma	Location *		LS	
Earthen Levee				GPS Latitude/Longitude			
Category				Start		End	
Item	Slope Stability				68°	39.347168°	
Rem				-122.0315	33°	-122.031533°	
DWR ID DWR_MA0001_01_f _ 2016_121							
Comment Code							
S1 : Repai	r slope ins	tability.					
		Inspecto	or Comm	nent			
Backfill and compact.							

Photo 1 of 1 : FA_2016_MA0001_297_121_20161107_00176.jpg

View of the low spot along the levee toe created by adjacent ditch overflow.

LM Start	11.53	Rating **	С	Issue No.		83
LM End	11.53	Issue Type +	Ma	Location *		LS
Category Earthen Levee				GPS Latitude/Longitude		
				Start		End
Item	Animal Control			39.3481	51 °	39.348151 °
пеш				-122.03126	60°	-122.031260 °
DWR ID DWR_MA0001_01_s _ 2016_83						
Comment Code						

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

No Photos

LM Start	11.73	Rating **	С	Issue No.		84		
LM End	11.73	Issue Type +	En	Location *		LS		
Category	evee	GPS La	atitud	le/Longitude				
Category			Start		End			
ltem Encroachments				39.3509	64°	39.350964 °		
пеш	item				35°	-122.030535 °		
DWR ID	DWR ID DWR_MA0001_01_s _ 2016_84							
		Comn	nent Cod	de				
DE : Debri	S							
	Inspector Comment							
concrete debris.								

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

		5 // 44						
LM Start	11.74	Rating **	A/W	Issue No.		23		
LM End	11.79	Issue Type +	En	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Category				Start		End		
Item	Vegetatio	n		39.3511	55°	39.351832°		
пеш				-122.0304	43 °	-122.030295 °		
DWR ID DWR_MA0001_01_s _ 2012_23								
	Comment Code							
V6 : Lands	caping							
Inspector Comment								

No Photos

12.06 Rating ** M Issue No LM Start 677 Location * LS 12.06 Issue Type + En LM End Supplemental GPS Latitude/Longitude Category Start End DWR UCIP Field Study 39.355516° 39.355516° Item -122.028700° -122.028700° DWR ID

Comment Code

Inspector Comment

FS_ID:50512 DS_ID:16457 EP_NO: 13449

Repair Type: Non-Urgent Crossing Status: Not Found

UCIP Comments: 10/24/2016 Unable to locate.(DWR Sutter Yard-AFreitag)4/25/2016 Unable to locate any markers fro this crossing.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.12/2012 According to PG&E, their records indicate that pipe segment has been retired per dwgs. PG&E is finding additional information to confirm if crossing has been retired and method of retirement. Waiting for clarification from PG&E.11/2012 Buried line. No markers found; Need to contact PG&E to determine if crosssing is still present.

FIELD_STRUCT_DESC: *ABANDONED* 4-inch asphalt coated steel gas pipeline through the levee, 30-inches below the crown. PG&E crossing is known as Reference No. 167-6-13. (Permit No. 13449, 1983 - Pacific Gas and Electric Company [PG&E]) Emergency contact Mr. Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Coordinates are approximate--crossing is abandoned according to PG&E records. [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 1:31:40 PM

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

12.06	Rating **	М	Issue No.		4			
13.10	Issue Type +	En	Location *		LS			
Category Earthen Levee					e/Longitude			
			Start		End			
Encroachments			39.3556	07°	39.362600°			
			-122.0287	07°	-122.014497°			
DWR ID DWR_MA0001_01_s _ 2012_4								
Comment Code								
Inspector Comment								
	13.10 Earthen L	13.10 Issue Type + Earthen Levee Encroachments DWR_MA0001_01_s _ 201 Comn	13.10 Issue Type + En Earthen Levee Encroachments DWR_MA0001_01_s _ 2012_4 Comment Coc	13.10 Issue Type + En Location * Earthen Levee GPS La Start Encroachments 39.3556 -122.0287 DWR_MA0001_01_s _ 2012_4 Comment Code	13.10 Issue Type + En Location * Earthen Levee GPS Latitud Start Encroachments 39.355607 ° -122.028707 ° DWR_MA0001_01_s _ 2012_4 Comment Code			

No Photos

LM Start	12.24	Rating **	М	Issue No.		122		
LM End	12.36	Issue Type +	Ma	Location *		LS		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory			Start		End			
Item	Vegetation			39.3573	22°	39.358283	٥	
пеш				-122.0265	90°	-122.024717	0	
DWR ID	DWR ID DWR_MA0001_01_f _ 2016_122							
Comment Code								
V1 · Control enguel gross and woods on the layer alongs and								

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment





View of the Johnson grass along the levee toe and concrete lined ditch.

LM Start	12.27	Rating **	С	Issue No.		78		
LM End	12.27	Issue Type +	Ma	Location *		WS		
Category	evee	GPS Latitude/Longitude						
Category				Start		End		
Item	Animal Control				97°	39.357497°		
item				-122.0260	93°	-122.026093 °		
DWR ID	DWR ID DWR_MA0001_01_f _ 2015_78							
Comment Code								
A1 : Exterminate rodents and backfill and compact or grout burrows.								

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

	_							
LM Start	12.49	Rating **	С	Issue No.		79		
LM End	12.49	Issue Type +	Ma	Location *		WS		
Category	Earthen L	evee		GPS La	atituc	de/Longitude		
Calegory				Start		End		
Item	Animal Co	ontrol		39.3595	00°	39.359500°		
пеш				-122.0229	80°	-122.022980 °		
DWR ID	DWR_MA0	001_01_f _ 201	5_79					
		Comn	nent Coo	de				
A3 : No roccompact o		le, but rodent rows.	burrows	visible; nee	ed to	backfill and		
		Inspecto	or Comm	nent				

No Photos

LM Start	12.69	Rating **	М	Issue No.	678		
LM End	12.69	Issue Type +	En	Location *	WS		
Category	GPS Latitude/Longitude						
Category				Start		End	
Item	DWR UC	IP Field Study		39.3598	43°	39.359843	0
пеш				-122.0195	29°	-122.019529	٥
DWR ID							

Comment Code

Inspector Comment

FS_ID:50514 DS_ID:16445 EP_NO: 9462

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears abandoned. LS concrete canal is filled by pipe DSID 16444.4/25/2016 Appears to be an abandoned crossing. WS slide gate still buried and inoperable.4/21/2015 Same as last inspection. 6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last

inspection.10/30/2012 Slide gate unoperable-blocked by sediment. LS-flap gate missing. 5-inch pipe goes through 24-inch crossing--unable to determine is authorized. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0435 for smaller pipe running inside existing crossing.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 10 feet below the crown. Slide gate on both waterside (WS) and landside (LS). Gate missing on the LS. (Automatic Board Order (ABO) issued as Permit No. 9462-1974, Thousand Acre Ranch) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 1:32:46 PM

Photo 1 of 2: UCIP_FA_2016_50514_70352.jpg



Overview of levee crown looking downstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	12.69	Rating **	М	Issue No.	678 (cont)			
LM End	12.69	Issue Type +	En	Location *	WS			
Category	ental	GPS Lat	tuc	le/Longitude				
Calegory			Start		End			
Item	DWR UCI	P Field Study		39.35984	3°	39.359843°		
пеш				-122.01952	9°	-122.019529°		
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:50514 DS_ID:16445 EP_NO: 9462

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Appears abandoned. LS concrete canal is filled by pipe DSID 16444.4/25/2016 Appears to be an abandoned crossing. WS slide gate still buried and inoperable.4/21/2015 Same as last inspection. 6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last

inspection.10/30/2012 Slide gate unoperable-blocked by sediment. LS-flap gate missing. 5-inch pipe goes through 24-inch crossing--unable to determine is authorized. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0435 for smaller pipe running inside existing crossing.

FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, approximately 10 feet below the crown. Slide gate on both waterside (WS) and landside (LS). Gate missing on the LS. (Automatic Board Order (ABO) issued as Permit No. 9462-1974, Thousand Acre Ranch) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 1:32:46 PM

Photo 2 of 2: UCIP_FA_2016_50514_70351.jpg



WS concrete structure with slide gate. Gate is blocked by sediment.

LM Start	12.69	Rating **	М	Issue No.		123		
LM End	12.79	Issue Type +	Ma	Location *		LS		
Category	Earthen L	evee	GPS La	atitud	le/Longitude			
Calegory		Start		End				
Item	Vegetatio	n		39.3598	10°	39.359748	0	
item				-122.0194	02 °	-122.017600	0	
DWR ID	DWR_MA0	001_01_f _ 201						
Comment Code								

V1 : Control annual grass and weeds on the levee slopes and easements.

Inspector Comment

Photo 1 of 1: FA_2016_MA0001_297_123_20161107_00178.jpg



View of the Johnson grass along the levee toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	13.33	Rating **	М	Issue No.		124		
LM End	13.33	Issue Type +	Ma	Location *		LS		
Cotogony	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Slope Sta	bility		39.3657	'48 °	39.365748°		
item				-122.0156	33°	-122.015633 °		
DWR ID DWR_MA0001_01_f _ 2016_124								
		Comn	nent Cod	de				
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	and	d prevent		
		Inspecto	or Comm	nent				



View of the slope instability caused by vehicles along the landside slope.

LM Start	13.46	Rating **	М	Issue No.		125		
LM End	13.46	Issue Type +	Ма	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Erosion / I	Bank Caving		39.3676	° 000	39.367600°		
item				-122.0152	248°	-122.015248°		
DWR ID	DWR ID DWR_MA0001_01_f _ 2016_125							
		Comn	nent Cod	de				
E1 : Note a	and monito	or erosion site						
		Inspecto	or Comm	nent				



View of the landside toe erosion caused by ag pipe.

Page 76 of 91

Flood Control Project Maintenance Levee Inspections

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	13.47	Rating **	U	Issue No.		639	
LM End	13.47	Issue Type +	En	Location *		LS	
Supplemental				GPS La	atitud	e/Longitude	
Calegory			Start		End		
Item	DWR UC	P Field Study		39.3676	43°	39.367643°	
пеш				-122.0152	12°	-122.015212°	
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:50683 DS_ID:16443 EP_NO: 9461 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/01/2016 Erosion/cavity collapse visible on LS toe. Slide gate inside concrete riser located on the WS is in the open position. Need to contact owner to confirm status of crossing and to determine cause of erosion on LS (pipe or concrete box might be leaking). (O. Magana - DWR UCIP)10/24/2016 Appears abandoned.(DWR Sutter Yard- AFreitag)4/25/2016 Slide gate in WS box visually appears to be closed as its stem is all the way down. Still cannot look into box to confirm 100% though. (A. Freitag - DWR Sutter Yard)4/21/2015 Same as last inspection. (A. Freitag - DWR Sutter Yard)6/23/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/17/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)7/22/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)10/30/2012 Unable to close positive closure device due to missing ladder-sluce gate inaccessible. Need to determine the condition of the gate. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0453 for an inaccessible gate box with its ladder broken on the waterward side. (O. Magana - DWR UCIP)

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 21.5 feet below the crown. Slide gate in concrete box on the waterside (WS) end. Pump on the bank. Tall concrete box located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9461, 1974 - Annie D. Propfe) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 710+82)].

FS Date: 10/27/2016 1:46:00 PM

Photo 1 of 2: UCIP_FA_2016_50683_70377.jpg



View of LS looking downstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	13.47	Rating **	U	Issue No.		639 (cont)		
LM End	13.47	Issue Type +	En	Location *	LS			
Category	Suppleme	Supplemental GPS Latitude/Lor						
Calegory		Start						
Item	DWR UC	IP Field Study		39.36764	13 °	39.367643	0	
пеш				-122.0152°	ı2°	-122.015212	0	
DWR ID								
	Comment Code							

Inspector Comment

FS_ID:50683 DS_ID:16443 EP_NO: 9461 Repair Type: Urgent Crossing Status: Found

UCIP Comments: 11/01/2016 Erosion/cavity collapse visible on LS toe. Slide gate inside concrete riser located on the WS is in the open position. Need to contact owner to confirm status of crossing and to determine cause of erosion on LS (pipe or concrete box might be leaking). (O. Magana - DWR UCIP)10/24/2016 Appears abandoned.(DWR Sutter Yard- AFreitag)4/25/2016 Slide gate in WS box visually appears to be closed as its stem is all the way down. Still cannot look into box to confirm 100% though. (A. Freitag - DWR Sutter Yard)4/21/2015 Same as last inspection. (A. Freitag - DWR Sutter Yard)6/23/2014 Same as last inspection. (A. Freitag - DWR Sutter Yard)12/17/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)7/22/2013 Same as last inspection. (A. Freitag - DWR Sutter Yard)10/30/2012 Unable to close positive closure device due to missing ladder-sluce gate inaccessible. Need to determine the condition of the gate. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0453 for an inaccessible gate box with its ladder broken on the waterward side. (O. Magana - DWR UCIP)

FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through the levee, 21.5 feet below the crown. Slide gate in concrete box on the waterside (WS) end. Pump on the bank. Tall concrete box located on the landside (LS). (Automatic Board Order (ABO) issued as Permit No. 9461, 1974 - Annie D. Propfe) [Additional Reference(s): DWR Levee Log, 1992. USACE Sacramento O&M Manual 137, August 1955, (Station 710+82)].

FS Date: 10/27/2016 1:46:00 PM

Photo 2 of 2: UCIP_FA_2016_50683_70376.jpg



View of WS at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	13.48	Rating **	М	Issue No.		126		
LM End	13.48	Issue Type +	En	Location *		LS		
Cotogony	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Encroach	ments		39.3678	32°	39.367832°		
item				-122.0151	30°	-122.015130°		
DWR ID	DWR_MA0	001_01_f _ 201	6_126					
		Comn	nent Cod	de				
EQ : Equip	ment							
		Inspecto	or Comm	nent				
Shipping of	Shipping container stored on landside toe.							

Photo 1 of 1 : FA_2016_MA0001_297_126_20161107_00181.jpg

View of a shipping container along the landside toe.

LM Start	13.79	Rating **	М	Issue No.		679
LM End	13.79	Issue Type +	En	Location *		LS
Category	ental	GPS Latitude/Longitude				
Calegory				Start		End
Item	DWR UCI	P Field Study		39.3719	34°	39.371934°
item				-122.0129	45 °	-122.012945°
DWR ID						

Inspector Comment

Comment Code

FS_ID:50521 DS_ID:16442 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Abandoned.(DWR Sutter Yard-AFreitag)4/25/2016 Abandoned crossing4/21/2015 Slide gate is still buried.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Slide gate is buried-non-fuctional. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0457 for buried slide gate.

FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee at approximately 15-18 feet below the crown. Slide gate on the waterside (WS) end. (Davis Ranches) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 1:47:29 PM

Photo 1 of 2: UCIP_FA_2016_50521_70379.jpg



Overview of levee crown looking downstream at crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	13.79	Rating **	М	Issue No.		679 (cont)
LM End	13.79	Issue Type +	En	Location *	LS	
Category	Suppleme	ental	GPS Latitude/Longitude			
Calegory						End
Item	DWR UCI	P Field Study		39.3719	34°	39.371934°
пеш				-122.0129	45 °	-122.012945°
DWR ID						
	Comment Code					

Inspector Comment

FS_ID:50521 DS_ID:16442 EP_NO: N/A

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Abandoned.(DWR Sutter Yard-AFreitag)4/25/2016 Abandoned crossing4/21/2015 Slide gate is still buried.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.10/30/2012 Slide gate is buried-non-fuctional. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0457 for buried slide gate.

FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee at approximately 15-18 feet below the crown. Slide gate on the waterside (WS) end. (Davis Ranches) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 1:47:29 PM



WS-Slide gate buried-non-functional.

LM Start	14.18	Rating **	М	Issue No.		127	
LM End	14.18	Issue Type +	Ma	Location *		LS	
Category	Earthen Levee					le/Longitude	
Category				Start		End	
Item	Slope Sta	bility		39.3772	288°	39.377288°	
item				-122.012360 °		-122.012360°	
DWR ID	DWR_MA0	001_01_f _ 201	6_127				
		Comn	nent Coo	le			
S1 : Repai	r slope ins	tability.					
			_				
	Inspector Comment						
Minor sink	Minor sinkhole on the landside toe.						

Photo 1 of 1 : FA_2016_MA0001_297_127_20161107_00182.jpg



View of a small sinkhole along the levee.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	14.25	Rating **	U	Issue No.		128
LM End	14.30	Issue Type +	En	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Encroachi	ments		39.3781	29°	39.378800°
item				-122.0130	40°	-122.013360 °
DWR ID DWR_MA0001_01_f _ 2016_128						
		Comn	nent Cod	de		
PI : Pipe						
		Inspecto	or Comm	nent		
Concrete pipe runs along the landside toe and concrete box at the end.						

Photo 1 of 1: FA_2016_MA0001_297_128_20161107_00183.jpg



View of a concrete pipe that runs along the levee toe.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	14.28	Rating **	М	Issue No.		680	
LM End	14.28	Issue Type +	En	Location *		LS	
Category	Suppleme	ental		GPS Latitude/Longitude			
Calegory				Start		End	
Item	DWR UCI	P Field Study		39.37856	88°	39.378568°	
item				-122.01326	62°	-122.013262°	
DWR ID							

Inspector Comment

Comment Code

FS_ID:50523 DS_ID:16441 EP_NO: 9460

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 This entire crossing now appears to be abandoned. The pvc pipe that was previously conected to the LS well pump is no longer connected and used to fill the box.(DWR Sutter Yard-AFreitag)4/25/2016 WS concrete box appears to be abandoned. LS box appears to get filled by a well pump on LS.4/21/2015 Same as last inspection.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last

inspection.10/30/2012 Need to determine if crossing is still being used there are some abandoned features that remain at this crossing-crossing has been modified. This crossing was listed in the USACE Periodic Inspections as ID# USACE_CESPK_MA1C_2010_p_0464 for abandoned pump station.

FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation pipe through the levee, at an unknown depth below the crown. Gate valve on the waterside (WS) end. Pump house on the WS berm. Concrete distribution box and flap gate at the landside (LS) toe. Inspector noted in 2016 that this structure appears to be partially abandoned concrete box appears to be in use. LS box appears to get filled by a well pump located on the LS and water distributed. (Automatic Board Order (ABO) issued as Permit No. 9460, 1974 - Morici Corporation) [Additional Reference(s): DWR Levee Log, 1992].

FS Date: 10/27/2016 1:48:32 PM

LM Start	14.28	Rating **	М	Issue No.	680 (cont)
LM End	14.28	Issue Type +	En	Location *	LS

Photo 1 of 2: UCIP_FA_2016_50523_70383.jpg



View of levee crown looking downstream at crossing.

Photo 2 of 2: UCIP_FA_2016_50523_70382.jpg



Concrete distribution box located on LS toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	14.80	Rating **	М	Issue No.		129		
LM End	14.80	Issue Type +	Ma	Location *	LS			
Category	evee		GPS L	atitud	e/Longitude			
Calegory			Start		End			
Item	Slope Sta	bility		39.386008°		39.386008°		
пеш				-122.014270 °		-122.014270 °		
DWR ID DWR_MA0001_01_f _ 2016_129								
		Comn	nent Cod	de				
S3 : Repai access wh		slope damag le.	ed by ve	ehicle traffic	and	prevent		
		Inspecto	or Comm	nent				



View of the slope instability caused by vehicles along the landside slope.

LM Start	15.38	Rating **	М	Issue No.		130		
LM End	15.38	Issue Type +	En	Location *	LS			
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Category				Start		End		
Item	Encroach	Encroachments			85°	39.393985°		
item					17°	-122.011217°		
DWR ID DWR_MA0001_01_f _ 2016_130								
		Comn	nent Cod	de				
DT : Ditch								
		Inspect	or Comm	nent				
Small ditch	Small ditch on the landside toe.							



View of a ditch along the landside toe.

LM Start	15.79	Rating **	U	Issue No.		85			
LM End	15.79	Issue Type +	En	Location *	LS				
Earthen Levee				GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Encroach	ments	39.3999	29°	39.399929°				
пеш				-122.010028°		-122.010028°			
DWR ID DWR_MA0001_01_s _ 2016_85									
		Comn	nent Cod	de					
DE : Debri	S								
		Inspecto	or Comm	nent					
prunings, concrete and tires.									



View of prunings, concrete, and tires along the toe.

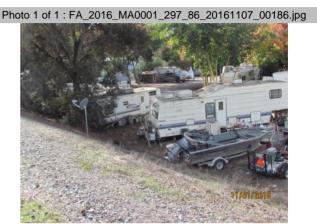
* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

		D // ++						
LM Start	15.84	Rating **	U	Issue No.		86		
LM End	15.90	Issue Type +	En	Location *		LS		
Category	Category Earthen Levee				atitud	e/Longitude		
Calegory				Start		End		
Item	Encroach		39.4006	01°	39.401365°			
item				-122.009889 °		° -122.009374°		
DWR ID DWR_MA0001_01_s _ 2016_86								
		Comn	nent Cod	de				
BU : Buildi	ng							
		Inspecto	or Comm	nent				
Mobile homes and trailers.								



View of the mobile homes and trailers along the landside toe.

LM Start	15.86	Rating **	N	Issue No.		131			
LM End	15.86	Issue Type +	Ма	Location *		LS			
Category	evee	GPS Latitude/Longitude							
Category	Category					End			
Item	Trim / Thi	n Trees		39.4008	75°	39.400875 °			
item				-122.009680 °		-122.009680 °			
DWR ID	DWR ID DWR_MA0001_01_f _ 2016_131								
		Comn	nent Cod	de					
T5 : Tree s	stumps.								
Inspector Comment									
About 7 stumps on the landside.									

No Photos

15.95	Rating **	U	Issue No.		87		
15.95	Issue Type +	En	Location *	LS			
Category Earthen Levee					e/Longitude		
			Start		End		
Encroachments					39.401994°		
			-122.009352 °		° -122.009352 °		
DWR ID DWR_MA0001_01_s _ 2016_87							
	Comm	nent Cod	le				
g							
	Inspecto	or Comm	ent				
	arthen Lo	arthen Levee ncroachments WR_MA0001_01_s _ 201 Comm	arthen Levee ncroachments WR_MA0001_01_s _ 2016_87 Comment Cod	arthen Levee GPS La Start ncroachments 39.4019 -122.0093 WR_MA0001_01_s _ 2016_87 Comment Code	arthen Levee GPS Latitud Start ncroachments 39.401994 -122.009352 WR_MA0001_01_s _ 2016_87 Comment Code		



View of a shed along the landside toe.

* Location

LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown

** Rating

A: Acceptable N: Not Inspected/Rated M: Maintenance Deficiancy

M: Minimally Acceptable C: Corrected Ob: Design & System Obsolescence

U: Unacceptable AW: Acceptable but Monitor & Maintain

** Rating

A: Acceptable M: N: Not Inspected/Rated M: Maintenance Deficiancy Ob: Design & System Obsolescence

En: Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

15.95	Rating **	U	Issue No.		88		
15.97	Issue Type +	En	Location *		LS		
Earthen L	evee		GPS La	atitud	e/Longitude		
			Start		End		
Vegetatio	n		39.4021	30°	39.402400°		
			-122.0093	54°	-122.009344°		
DWR ID DWR_MA0001_01_s _ 2016_88							
	Comn	nent Cod	le				
caping							
	Inspecto	or Comm	ent				
	15.97 Earthen L Vegetation	15.97 Issue Type + Earthen Levee Vegetation DWR_MA0001_01_s _ 201 Commscaping	15.97 Issue Type + En Earthen Levee Vegetation DWR_MA0001_01_s _ 2016_88 Comment Coccepting	15.97 Issue Type + En Location * Earthen Levee GPS Li Start Vegetation 39.4021 -122.0093 DWR_MA0001_01_s _ 2016_88 Comment Code	15.97 Issue Type + En Location * Earthen Levee GPS Latitud Start Vegetation 39.402130 ° -122.009354 ° DWR_MA0001_01_s _ 2016_88 Comment Code scaping		



View of landscaping obstructing visibility and access.

LM Start	15.99	Rating **	М	Issue No.		132		
LM End	15.99	Issue Type +	Ma	Location *	LS			
Category Earthen Levee				GPS Latitude/Longitude				
				Start		End		
Itom	Animal Co	ontrol		39.4026	05 °	39.402605°		
item	Item				48 °	-122.009348°		
DWR ID DWR_MA0001_01_f _ 2016_132								
Comment Code								

A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.

Inspector Comment

Photo 1 of 1 : FA_2016_MA0001_297_132_20161107_00188.jpg



View of the rodent holes along the landside slope.

LM Start	16.00	Rating **	U	Issue No.	89				
LM End	16.02	Issue Type +	En	Location *	LS				
Category	Earthen L	evee		GPS La	atitud	e/Longitude			
Category				Start		End			
Item	Encroachi	ments		39.4027	'56 °	39.403040°			
пеш				-122.0092	261°	-122.009186°			
DWR ID	DWR ID DWR_MA0001_01_s _ 2016_89								
		Comn	nent Coo	le					
BU : Buildi	ng								
		Inspecto	or Comm	ent					
RED HOU	RED HOUSE AND METAL FENCE								



Corrugated metal fence obstructing visibility and access

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	16.03	Rating **	U	Issue No.		90		
LM End	16.03	Issue Type +	En	Location *	LS			
Category	Earthen L	evee		GPS La	atitud	le/Longitude		
Category				Start		End		
Item	Encroachi	ments		39.4032	° 800	39.403206°		
пеш				-122.0091	16°	-122.009116°		
DWR ID DWR_MA0001_01_s _ 2016_90								
		Comn	nent Cod	de				
BU : Buildi	ng							
		Inspecto	or Comm	nent				
metal sided building								



View of a currugated metal building obstructing visibility and access.

LM Start	16.06	Rating **	U	Issue No.		91			
LM End	16.06	Issue Type +	En	Location *	LS				
Category Earthen Levee				GPS La	atitud	le/Longitude			
Calegory				Start		End			
Item	Encroach	ments		39.4035	65°	39.403565°			
пеш				-122.0090	39°	-122.009039 °			
DWR ID	DWR ID DWR_MA0001_01_s _ 2016_91								
		Comn	nent Cod	de					
BU : Buildi	ng								
		Inspecto	or Comm	nent					
long, white	long, white metal building with several AC units								



View of a building obstructung access.

LM Start	16.08	Rating **	U	Issue No.		14
LM End	16.08	Issue Type +	En	Location *		WS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Category				Start		End
Item	Encroachi	ments		39.4039	30°	39.403930°
item				-122.0089	25°	-122.008925 °
DWR ID	DWR_MA0	001_01_s _ 201	2_14			
		Comn	nent Cod	de		
BU : Build	ing					
			_			
		Inspecto	or Comm	nent		



View of the building on the waterside slope.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	16.10	Rating **	U	Issue No.		26	
LM End	16.10	Issue Type +	En	Location *		LS	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Encroachi	ments		39.4041	35°	39.404135°	
item				-122.0087	97°	-122.008797°	
DWR ID DWR_MA0001_01_s _ 2012_26							
		Comn	nent Cod	de			
BU : Buildi	ng						
		la a a a a t	0				
		Inspecto	or Comm	ient			



View of the building on the landside slope.

LM Start	16.10	Rating **	М	Issue No.		74	
LM End	16.10	Issue Type +	En	Location *		LS	
Category Earthen Levee				GPS La	titud	le/Longitude	
				Start		End	
Itom	Vegetatio	n		39.40425	55 °	39.404255°	
Item S				-122.00884	12°	-122.008842°	
DWR ID DWR_MA0001_01_s _ 2015_74							
Comment Code							

V6 : Landscaping

Inspector Comment

Remove the landscape from the landside slope and toe.

Photo 1 of 1 : FA_2016_MA0001_297_74_20160823_00018.jpg

View of the landscape along the landside slope and toe.

LM Start	16.17	Rating **	М	Issue No.		133	
LM End	16.17	Issue Type +	En	Location *	LS		
Earthen Levee			GPS La	atitud	le/Longitude		
Category				Start		End	
ltem Encroachments				39.4051	47°	39.405147°	
пеш				-122.008630 °		0° -122.008630°	
DWR ID DWR_MA0001_01_f _ 2016_133							
		Comn	nent Cod	le			
FW : Firew	/ood						
			_				
Inspector Comment							



View of firewood and containers along the landside toe.

* Location	** Rating		+ Issue Type
LS: Land Side N/A: Not Applicable WS: Water Side CR: Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	16.26	Rating **	М	Issue No.		134	
LM End	16.26	Issue Type +	En	Location *	LS		
Earthen Levee				GPS La	atitud	le/Longitude	
Category				Start		End	
Item	Vegetation				20°	39.406520°	
item				-122.008635 °		-122.008635 °	
DWR ID DWR_MA0001_01_f _ 2016_134							
Comment Code							
V6 : Lands	scaping						
			•				
Inspector Comment							



View of cactus and fruit trees along the landside toe blocking visibility.

Rating ** Issue No. LM Start 16.30 Μ 15 16.32 Issue Type + Location * LS LM End Earthen Levee GPS Latitude/Longitude Category Start End Encroachments 39.407066° 39.407363° -122.008730 -122.008780 ° DWR ID DWR_MA0001_01_s _ 2012_15 Comment Code BU: Building Inspector Comment

No Photos

LM Start	16.31	Rating **	U	Issue No.		46		
LM End	16.33	Issue Type +	En	Location *		LS		
Category	Earthen L	evee		GPS La	atitud	e/Longitude		
Calegory				Start		End		
Item	Encroachi	39.4072	25°	39.407545°				
item				-122.008570 °		-122.008640 °		
DWR ID	DWR ID DWR_MA0001_01_s _ 2012_46							
		Comn	nent Cod	de				
BU : Buildi	ng							
	Inspector Comment							

Photo 1 of 1: FA_2016_MA0001_297_46_20160823_00014.jpg



View of the building along the landside toe.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

16.34	Rating **	U	Issue No.		47			
16.35	Issue Type +	En	Location *		LS			
Category Earthen Levee				atitud	e/Longitude			
			Start		End			
Encroachments			39.4076	70°	39.407823°			
			-122.008685 °		-122.008740 °			
DWR ID DWR_MA0001_01_s _ 2012_47								
	Comn	nent Cod	de					
)								
Inspector Comment								
	16.35 Earthen L Encroach	16.35 Issue Type + Earthen Levee Encroachments DWR_MA0001_01_s _ 201 Comn	16.35 Issue Type + En Earthen Levee Encroachments DWR_MA0001_01_s _ 2012_47 Comment Coc	16.35 Issue Type + En Location * Earthen Levee GPS La Start Encroachments 39.4076 -122.0086 DWR_MA0001_01_s _ 2012_47 Comment Code	16.35 Issue Type + En Location * Earthen Levee GPS Latitud Start Encroachments 39.407670 ° -122.008685 ° DWR_MA0001_01_s _ 2012_47 Comment Code			

Photo 1 of 1 : FA_2016_MA0001_297_47_20160823_00015.jpg



View of the fence along the landside toe.

LM Start	16.35	Rating **	М	Issue No.		9	
LM End	16.58	Issue Type +	Ma	Location *		WS	
Category	Supplemental			GPS Latitude/Longitude			
Calegory				Start		End	
Item	2015 USACE Erosion Survey, DRAFT			39.407837°		39.411111°	
пеш				-122.008763 °		-122.009238 °	
DWR ID	DWR_MA0	001_01_s _ 201	16_9				
Comment Code							

Inspector Comment

Erosion site added in 1997 and removed in 2005. 2009 - Site added back in, hard toe with slow moving erosion. Potential geotechnical failure. 2011 - Site extended downstream. 2015: Last observed in 2013. [2015 Site ID: SAC_164-3_R]

LM Start	16.35	Rating **	М	Issue No.	9 (cont)
LM End	16.58	Issue Type +	Ma	Location *	WS

Photo 1 of 2: FA_2016_MA0001_297_9_20160823_00006.jpg



USACE 2013 Photo #1

Photo 2 of 2: FA_2016_MA0001_297_9_20160823_00007.jpg



USACE 2013 Photo #2

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	16.37	Rating **	М	Issue No.		135	
LM End	16.37	Issue Type +	En	Location *		LS	
Catagoni	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Encroachi		39.408073°		39.408073°		
пеш				-122.0090	-122.009058°		
DWR ID DWR_MA0001_01_f _ 2016_135							
Comment Code							
EQ : Equipment							
			_				
Inspector Comment							
Debris, metal, and firewood on the landside toe.							



View of metal sheets along the levee slope and debris and firewood along the landside toe.

LM Start	16.49	Rating **	M	Issue No.		681		
LM End	16.49	Issue Type +	En	Location *		LS		
Category				GPS Latitude/Longitude				
Category			Start		End			
Item	DWR UCI	P Field Study		39.4097	58°	39.409758°		
item				-122.00956	62°	-122.009562°		
DWR ID						·		

Comment Code

Inspector Comment

FS_ID:50526 DS_ID:16438 EP_NO: 2189

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 Abandoned.(DWR Sutter Yard-AFreitag)4/25/2016 Abandoned pipes.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed. Also need to determine additional details--depth and alignment.6/23/2014 Same as last inspection.12/17/2013 Same as last inspection.7/22/2013 Same as last inspection.12/2012 Crossing is an active line. Waiting for additional information from PG&E.11/2012 Buried line--no markers visible. Olivia (UCIP team) is coordinating with PG&E to determine more info on crossing.

FIELD_STRUCT_DESC: 2-inch gas line along landside (LS) toe from 12-inch gas line at levee mile 16.85 to the Princeton Rice Dryer. 2-inch pipeline installed logitudinally on the levee parallel to highway (HWY) 45 in a northernly direction from the point where the 2-10-inch pipes were installed in the levee. Emergency contact Mr. Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Utility crossing coordinates are approximate. (Permit No. 2189, 1958 - Pacific Gas & Electric [PG&E]) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/27/2016 1:50:58 PM

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	16.55	Rating **	М	Issue No.	682		
LM End	16.55	Issue Type +	En	Location *	LS		
Supplemental				GPS Latitude/Longitude			
Calegory	Category					End	
Item	DWR UCIP Field Study			39.410645°		39.410645°	
пеш				-122.0097	05 °	-122.009705°	
DWR ID							
Comment Code							

Inspector Comment

FS ID:50527 DS_ID:16448 EP_NO: 14424

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 WS marker sign still knocked over.(DWR Sutter Yard- AFreitag)4/25/2016 WS marker sign is still knocked over.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed.

6/23/2014 Same as last inspection.12/17/2013 Same as last inspection7/22/2013 Same as last inspection.12/2012 Waiting for information regarding crossing from PG&E. Regarding damage warning sign--PG&E has initiated a project to replace pipeline crossing sign and utility markers, as required by DOT codes/regulations.11/2012 Utility warning sign damaged. Olivia (UCIP team) is coordinating with PG&E to determine more info on crossing.

FIELD_STRUCT_DESC: 12-inch gas pipe through the levee, 30-inches below the crown. This 12-inch replacement pipe was installed by horizontally directionally drilling under the State HWY. Crossing is cathodically protected against external corrosion. Line was bored with a minimum cover of 48 feet under the right bank levee, 60 feet under the right bank, 25 feet under the channel and 52 feet under the left bank. Emergency contact: Monte Penland, Gas Maintenance Supervisor, 15871 Central Street, Meridian, CA 95957; Office No. 530-634-6520 or Mobile No. 530-356-7396. Utility crossing coordinates are approximate. This pipe is under pressure and cathodic protection (CP) readings are taken on a regular schedule. (Permit No. 14424, 1988 - Pacific Gas & Electric [PG&E]) [Additional Reference(s): DWR Levee Log, 1992]. FS Date: 10/27/2016 1:51:29 PM





View just upstream of utility crossing.

Levee Inspection Report By Mile - Fall 2016

Sutter Maintenance Yard Maintenance Area 0001

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	16.76	11/01/2016 11/01/2016	Tariq Chechi

LM Start	16.55	Rating **	М	Issue No.	682 (cont)		
LM End	16.55	Issue Type +	En	Location *		LS	
Supplemental				GPS Latitude/Longitude			
Category				Start		End	
ltom	DWR UCIP Field Study		39.410645°		39.410645°		
пеш	Item		-122.009705 °		-122.009705 °		
DWR ID							
	Comment Code						

Inspector Comment

FS_ID:50527 DS_ID:16448 EP_NO: 14424

Repair Type: Non-Urgent Crossing Status: Found

UCIP Comments: 10/24/2016 WS marker sign still knocked over.(DWR Sutter Yard- AFreitag)4/25/2016 WS marker sign is still knocked over.4/21/2015 Same as last inspection.11/3/2014 (DWR-Olivia) Need to contact owner to determine when markers will be placed.

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Photo 2 of 2: UCIP_FA_2016_50527_70390.jpg



View of utility marker located on LS across hwy.